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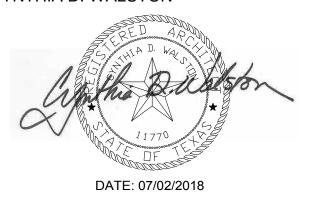
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ARCHITECT OF RECORD

CYNTHIA D. WALSTON



REVISIONS

07/24/2018 ADDENDUM NO. 1 08/17/2018 ADDENDUM NO. 2

PROJECT NAME



Jane and Robert Cizik
School of Nursing

The University of Texas
Health Science Center at Houston

SIMULATION LAB

PROJECT NUMBER

045017.0000

CIP 1601

ISSUE FOR CONSTRUCTION

DATE

07/02/2018

SHEET INDEX

DRAWING NUMBER

A0.01

1. Floor and Ceiling Runners — (Not shown) — Channel shaped runners, 3-5/8 in. deep (min), 1-1/4 in. legs, formed from min No. 25 MSG galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1A. Framing Members*— Floor and Ceiling Runners — (Not shown) — As an alternate to Item 1 - Channel shaped, min 3-5/8 in. deep, attached to floor and ceiling with fasteners 24 in. OC. max. ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System UNITED METAL PRODUCTS INC — Type SUPREME Framing System

1B. Framing Members* - Floor and Ceiling Runners — Not shown - In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track **CRACO MFG INC** — SmarterTrack20[™], SmartTrack20[™] MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

PHILLIPS MFG CO L L C — Viper20™ Track TELLING INDUSTRIES L L C — Viper20™ Track 1C. Floor and Ceiling Runners — (Not shown)—For use with Item 2C- Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth

to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC. 1D. Framing Members*— Floor and Ceiling Runners — Not shown - In lieu of Items 1 through 1C — For use with Item 2D and 4G only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in.

thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. **CLARKDIETRICH BUILDING SYSTEMS** — CD ProTRAK DMFCWBS L L C — ProTRAK MBA BUILDING SUPPLIES — ProTRAK

SOUTHEASTERN STUD & COMPONENTS INC — ProTRAK STEEL STRUCTURAL SYSTEMS L L C — Tri-S ProTRAK

1E. Framing Members*— Floor and Ceiling Runners — Not shown - In lieu of Items 1 through 1D — For use with Item 2E and 4I only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. TELLING INDUSTRIES L L C — TRUE-TRACK™

1F. Framing Members*— Floor and Ceiling Runners — Not shown - In lieu of Items 1 through 1E — For use with Item 2, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 25 MSG steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. KIRII (HONG KONG) LTD — Type KIRII

1G. Framing Members*— Floor and Ceiling Runners — Not shown - In lieu of Items 1 through 1F — For use with Item 2, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide, attached to floor and ceiling with fasteners spaced 24

STUDCO BUILDING SYSTEMS — CROCSTUD Track

1H. Floor and Ceiling Runners — (Not shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.02 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC. MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100.

2. **Steel Studs** — Channel shaped, 3-5/8 in. deep (min), formed from min No. 25 MSG galv steel spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly

2A. Framing Members*— Steel Studs — As an alternate to Item 2 - Channel shaped studs, min 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing **STEEL CONSTRUCTION SYSTEMS INC** — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

2B. Framing Members* - Steel Studs — Not shown - In lieu of Item 2 — For use with Item 1B, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height. CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™

CRACO MFG INC — SmarterStud20[™], SmartStud20[™] MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ PHILLIPS MFG CO L L C — Viper20™ TELLING INDUSTRIES L L C — Viper20™

2C. **Steel Studs** — (As an alternate to Item 2, For use with Item 4E) Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2D. Framing Members*— Steel Studs — As an alternate to Items 2 through 2C-For use with Item 1D and 4G only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to

be cut 1/2 in. less than assembly height. **CLARKDIETRICH BUILDING SYSTEMS** — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA BUILDING SUPPLIES — ProSTUD **SOUTHEASTERN STUD & COMPONENTS INC** — ProSTUD STEEL STRUCTURAL SYSTEMS L L C — Tri-S ProSTUD

2E. Framing Members*— Steel Studs — As an alternate to Items 2 through 2D-For use with Item 1E and 4I only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height. TELLING INDUSTRIES L L C — TRUE-STUD™

2F. Framing Members*— Steel Studs — As an alternate to Items 2 through 2E-For use with Item 1F, channel shaped studs, min 3-5/8 in. wide fabricated from min 25 MSG steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than

assembly height. KIRII (HONG KONG) LTD — Type KIRII 2G. Framing Members* - Steel Studs — Not shown - In lieu of Item 2 through 2F

- For use with Item 1G. Proprietary channel shaped studs, minimum 3-5/8 in. wide, Studs to be cut 1/2 in. less than the assembly height. STUDCO BUILDING SYSTEMS — CROCSTUD

3. Batts and Blankets* — (Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. See Batts and Blankets (BZJZ) category for names of Classified companies.

3A. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 3.0 lb/ft3. Alternate application method: The fiber is applied with U.S. Greenfiber LLC Type AD100 hot melt adhesive at a nominal ratio of one part adhesive to 6.6 parts fiber to completely fill the enclosed cavity in accordance with the product. Nominal U S C. L. NFIBER L L C — Cocoon2 Stabilized or Cocoon-FRM (Fire Rated 4. **Gypsum Board*** — 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When attached to item 6 (resilient channels) or 6A (furring channels), gypsum board is screw attached to furring channels with 1 in. long, Type S steel screws spaced 12 in. OC.

ACADIA DRYWALL SUPPLIES LTD — Type X AMERICAN GYPSUM CO — Types AG-C, AGX-1, M-Glass **BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO** — Type DBX-1. CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or

CERTAINTEED GYPSUM INC — Types 1, EGRG, GlasRoc, Type X, Type C, SilentFX, 5/8" Easi-Lite Type X. **CERTAINTEED GYPSUM CANADA INC** — Type C, Type X, Type Abuse-Resistant, 5/8" Easi-Lite Type X. GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DAP, DD, DA, DAPC,

LAFARGE NORTH AMERICA INC — Types LGFC2, LGFC2A, LGFC6, LGFC6A, LGFC-C, LGFC-C/A, LGFC-WD, LGLLX. NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, FSL.

DGG, DS, GPFS6, LS.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-C, PG-9, PG-11, PGS-WRS. PANEL REY S A — Types GREX, PRX, RHX, MDX, ETX. SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1 **TEMPLE-INLAND** — Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, TG-C, GreenGlass Type X, Type X

ComfortGuard Sound Deadening Gypsum Board. UNITED STATES GYPSUM CO — Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX). USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.

4A. **Gypsum Board*** — (As alternate to Item 4) - Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 8 in. OC when applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally. CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or

CERTAINTEED GYPSUM INC — Type X, Type C. **CERTAINTEED GYPSUM CANADA INC** — Type X, Type C **GEORGIA-PACIFIC GYPSUM L L C** — Types DAP, DAPC, DGG, DS. LAFARGE NORTH AMERICA INC — Type LGFC6A, LGFC-C/A UNITED STATES GYPSUM CO — T ype AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, , USGX (Joint tape and compound, Item 5, optional for use with Type USGX). USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX,

4B. **Gypsum Board*** — (As an alternate to Items 4 or 4A) — Nom 3/4 in. thick, 4 ft wide, installed as described in Item 4A with screw length increased to 1-1/4 in. **CGC INC** — Types AR, IP-AR. UNITED STATES GYPSUM CO — Types AR, IP-AR.

USG MEXICO S A DE C V — Types AR, IP-AR. 4C. Gypsum Board* — As an alternate to Items 4, 4A, and 4B - Nom. 5/8 in. thick gypsum panels, with square edges, applied horizontally. Gypsum panels fastened to framing with 1 in. long bugle head steel screws spaced a max 8 in. OC, with last 2 screws 3/4 in. and 4 in. from each edge of board. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs on interior walls need not be staggered or backed by steel

TEMPLE-INLAND — GreenGlass Type X.

SHX, WRC or WRX.

4D. Gypsum Board* — As an alternate to Items 4, 4A, 4B, and 4C - Nom. 5/8 in. thick gypsum panels applied horizontally. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Gypsum panels fastened to framing with 1 in. long Type S steel screws 1-1/2 in. from board edges, 3 in. from board edge and every 8 in. OC in the field. Screws spaced a max 12 in. along the top and bottom edges of

NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW.

4E. **Gypsum Board*** — (As an alternate to Items 4 through 4D) - Installed as described in Item 4. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 1 in. long, Type S steel screws spaced, 8 in. OC. Not to be used with item 6.

NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board 4F. Gypsum Board* — (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs

Item 2C) - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or

tapered edges, applied vertically. Vertical joints centered over studs and staggered

min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC **RAY-BAR ENGINEERING CORP** — Type RB-LBG

4G. **Gypsum Board*** — (As an alternate to Items 4 through 4F) — For use with Items 1D and 2D only, 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and

staggered on opposite sides of the assembly. LAFARGE NORTH AMERICA INC — Type LGFC6A, LGFC-C/A NATIONAL GYPSUM CO — Types FSW UNITED STATES GYPSUM CO — Type SCX

4H. Wall and Partition Facings and Accessories* — (As an alternate to Items 4 through 4G) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4. **SERIOUS ENERGY INC** — Types QuietRock ES, QuietRock 527.

4l. **Gypsum Board*** — (As an alternate to Items 4 through 4F) — For use with Items 1E and 2E only, 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. UNITED STATES GYPSUM CO — Type SCX

4J. Gypsum Board* — (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see

MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4K. Gypsum Board* — (As an alternate to Item 4 and 4A, not for use with Items 1D, 1E, 2D and 2E) - Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 4 and 4A. CGC INC — Type ULX

UNITED STATES GYPSUM CO — Type ULX USG MEXICO S A DE C V — Type ULX

4L. Gypsum Board* — (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f,

Grade "C". RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5. Joint Tape and Compound — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer Ost eompound over all joints. As an enternate, how in all 2/32 in thick gryps war verser plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.

6B. Framing Members* — Optional - Not Shown - Used as an alternate method to attach resilient channels (Item 6). Clips attached at each intersection of the resilient channel and the steel studs (Item 2). Resilient channels are friction fitted into clips, and then clips are secured to the stud with min. 1 in. long Type S-12 pan head steel screws through the center hole of the clip and the resilient channel

KEENE BUILDING PRODUCTS CO INC — Type RC Assurance.

7. Wall and Partition Facings and Accessories* — (Optional, Not shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-510 panel is installed between the steel framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. SERIOUS ENERGY INC — Type QuietRock QR-510.

8. Mineral and Fiber Board* — (Optional, Not shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC. The required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer (s) of UL Classified Gypsum Board. **HOMASOTE CO** — Homasote Type 440-32

9. **Lead Batten Strips** — (Not Shown, For Use With Item 4E) - Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum board (Item 4E) and optional at remaining stud locations. Required behind vertical joints.

9A. Lead Batten Strips — (Not Shown, for use with Item 4J) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grades "A, B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4J) and optional at remaining stud locations.

10. Lead Discs or Tabs — (Not Shown, For Use With Item 4E) - Used in lieu of or in addition to the lead batten strips (Item 8) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4E) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

10A. **Lead Discs** — (Not Shown, for use with Item 4J) Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.9% meeting the Federal Specification QQ-L-201f, Grades "A, B, C or D".

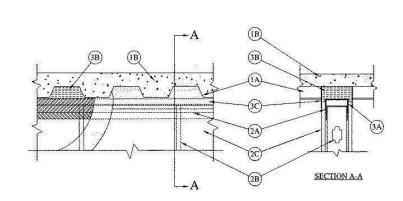
*Bearing the UL Classification Mark

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System No. HW-D-0185

September 01, 2016

Assembly Ratings — 1 and 2 Hr (See Item 2) Nominal Joint Width — 1 In. Class II and III Movement Capabilities — 25% Compression or Extension



1. Floor Assembly — The fire rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Steel Floor and Form Units* — Max 3 in. (76 mm) deep galv steel fluted

B. Concrete — Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

2. Wall Assembly — The 1 hr or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Steel Floor and Ceiling Runners — Floor and ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs. When U-shaped deflection channel is used, ceiling runner installed within the deflection channel with 1 in. (25 mm) gap maintained between the top of the ceiling runner and top of deflection channel. When deflection channel is not used, ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors or by welds spaced max 24 in. (610 mm) OC.

A1. Light Gauge Framing* — Slotted Ceiling Runner — As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Slotted ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors spaced max 24 in. (610 mm) OC. When slotted ceiling runner is used, deflection channel (Item 3A)

shall not be used. BRADY CONSTRUCTION INNOVATIONS INC, DBA SLIPTRACK SYSTEMS **CLARKDIETRICH BUILDING SYSTEMS** — Type SLT, SLT-H

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Type SLT METAL-LITE INC — The System RAM SALES L L C — RAM Slotted Track SCAFCO STEEL STUD MANUFACTURING CO

TELLING INDUSTRIES L L C — True-Action Deflection Track

A2. Light Gauge Framing* — Clipped Ceiling Runner — As an alternate to the ceiling runner in Items 2A and 2A1, clipped runner to consist of galv steel channel with clips preformed in track flanges which positively engage the inside flange of the steel studs (Item 2B). Track sized to accommodate steel studs (Item 2B). Track flanges to be min 2-1/2 in. (64 mm). Clipped ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors spaced max 24 in. (610 mm) OC. When clipped ceiling runner is used, deflection channel (Item 3A) shall not be used. TOTAL STEEL SOLUTIONS L L C — Snap Trak

A3. Light Gauge Framing* — Vertical Deflection Ceiling Runner — As an alternate to the ceiling runner in Items 2A, 2A1 2A2, vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips, provided with step bushings, for permanent fastening of steel studs. Vertical deflection ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors spaced max 24 in. (610 mm) OC. When vertical deflection ceiling runner is used, deflection channel (Item 3A) shall not be used. THE STEEL NETWORK INC — VertiTrack VTD250, VTD362, VTD400, VTD600 and VTD800

A4. Light Gauge Framing*- Notched Ceiling Runner — As an alternate to the ceiling runners in Items 2A through 2A3, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2B). Notched ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors spaced max 24 in. (610 mm) OC. When notched ceiling runner is used, deflection channel (Item 3A) shall not be used. **OLMAR SUPPLY INC** — Type SCR

B. **Studs** — Steel studs to be min 2-1/2 in. (64 mm) wide. Studs cut 5/8 in. (16 mm) less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. When vertical deflection ceiling runner (Item 2A3) is used, steel studs secured to slotted vertical deflection clips, through bushings, with steel screws at midheight of each slot. Stud spacing not to exceed 24 in.

C. **Gypsum Board*** — Gypsum board sheets installed to a min total thickness of 5/8 in. (16 mm) and 1-1/4 in. (32 mm) on each side of wall for 1 and 2 hr rated assemblies, respectively. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a nom 1 in. (25 mm) gap shall be maintained between the top of the gypsum board and the bottom of the steel floor units. The screws attaching the gypsum board to studs at the top of the wall shall be located 1 in. (25 mm) below the bottom of the deflection channel, when deflection channel is used. When deflection channel is not used, the screws attaching the gypsum board to studs at the top of the wall shall be located 1 in. (25 mm) below the bottom of

The hourly fire rating of the joint system is equal to the hourly fire rating

3. Joint System — Max width of joint (at time of installation of joint system) is 1 in. (25 mm). The joint system is designed to accommodate a max 25 percent compression or extension from its installed width. The joint system shall consist of the following:

A. **Deflection Channel —** (Optional) - A nom 2-1/2 in. (64 mm) wide by min 2 in. (51 mm) deep min 24 gauge steel U-shaped channel. Deflection channel installed perpendicular to direction of fluted steel floor units and secured to valleys with steel masonry anchors or by welds spaced max 24 in. (610 mm) OC. The ceiling runner (Item 2A) is installed within the deflection channel to maintain a 1 in. (25 mm) gap between the top of the ceiling runner and the top of the deflection channel. The ceiling runner is not fastened to the deflection

B. Forming Material* — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation cut to the shape of the fluted deck, approx 20 percent larger than the area of the flutes and compressed into flutes of the steel floor units between the top of the ceiling runner and the steel deck and compressed in width to be flush with vertical leg of ceiling runner on both sides. Additional pieces of min 4 pcf mineral wool batt insulation are to be cut to the contour of the flutes with an additional 1-3/8 in. (35 mm) high section at the bottom of the shapes to fill the 1 in. (25 mm) gap between the top of the wallboard and bottom of the steel floor units. The additional pieces of mineral wool are to be cut to min 3/4 and 1-1/2 in. (19 and 38 mm) thick for 1 and 2 hr rated assemblies, respectively, and compressed and firmly packed into the flutes and the gap between the top of the wallboard and bottom of the steel floor units on both sides of the wall and compressed in thickness to be recessed from each surface of the wall to accommodate the required thickness

INDUSTRIAL INSULATION GROUP L L C — MinWool-1200 Safing JOHNS MANVILLE — Safing ROCK WOOL MANUFACTURING CO — Delta Safing Board **THERMAFIBER INC** — Type SAF

of fill material.

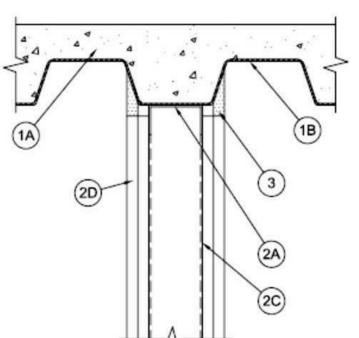
C. Fill, Void or Cavity Material* — Min 1/16 in. (1.6 mm) dry thickness (min 1/8 in. or 3.2 mm wet thickness) of fill material sprayed or brushed on each side of the wall in the flutes of the steel floor units and between the top of the gypsum board and the bottom of the steel floor units to completely cover mineral wool and overlap a min of 1 in. (25 mm) onto gypsum board and steel deck on both sides of wall. PASSIVE FIRE PROTECTION PARTNERS — 3500SI, 5100 SP

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada),

U.L. DESIGN NO. HW-D-0185

System No. HW-D-0184

| ANSI/UL2079 | CAN/ULC S115 |
|--|---|
| Assembly Ratings — 1 and 2 Hr (See Item 2) | F Ratings — 1 and 2 Hr (See Item 2 |
| Nominal Joint Width - 3/4 In. | FT Ratings — 1 and 2 Hr (See Item 2 |
| Class II Movement Capabilities — 17% Compression or Extension | FH Ratings — 1 and 2 Hr (See Item 2 |
| L Rating At Ambient — Less Than 1 CFM/lin ft | FTH Ratings — 1 and 2 Hr (See Item 2 |
| L Rating At 400 F — Less Than 1 CFM/lin ft | Nominal Joint Width - 3/4 In |
| | Class II Movement Capabilities — 17% Compression o Extension |
| | L Rating At Ambient — Less Than 1 CFM/lin f |
| | L Rating At 400 F — Less Than 1 CFM/lin f |



1. Floor Assembly — The fire-rated fluted steel floor unit/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 or D900 Series Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Steel Floor and Form Units* — Max 3 in. (76 mm) deep galv steel fluted

B. Concrete — Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured

from the top plane of the floor units. C. Spray-Applied Fire Resistive Materials (Optional) — (Not Shown) — Prior to or after the installation of the ceiling runner and prior to the installation of the Fill, Void or Cavity Materials (Items 2A and 3), the steel floor units may be sprayed with a min 5/16 in. (8 mm) thickness to a max 11/16 in. (17 mm) thickness of fire resistive material.

GCP APPLIED TECHNOLOGIES INC Type MK-6/HY

1A. Roof Assembly — (Not Shown) — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following

A. Steel Roof Deck — Max 3 in. (76 mm) deep galv steel fluted roof deck. B. **Roof Insulation** — Min 2-1/4 in. (57 mm) thick poured insulating concrete. as measured from the top plane of the floor units.

1B. Roof Assembly — As an alternate to Items 1 and 1A, a fire rated protected fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction

B. Spray—Applied Fire Resistive Materials* — (Not Shown)—Prior to or after the installation of the steel ceiling runners, and prior to the installation of the Forming Material and Fill, Void or Cavity Material (Items 2A, 3A, 3B), the roof assembly shall be sprayed with the type and thickness of fire resistive material indicated in the individual P700 Series design.

2. **Wall Assembly** — The 1 or 2 hr fire rated gypsum board/steel stud wall

assembly shall be constructed of the materials and in the manner described in

the individual U400, V400 or W400 Series Wall and Partition Design in the UL

A. Steel Roof Deck — Max 3 in. (76 mm) deep galv steel fluted roof deck.

Fire Resistance Directory and shall include the following construction features: A. Steel Floor and Ceiling Runners — Floor and ceiling runners of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2C). Flange height of ceiling runner shall be min 1/4 in. (6 mm) greater than max extended joint width. Ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, and secured with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610mm) OC before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to

the installation of the optional spray-applied material.

600VT and 800VT

A1. Light Gauge Framing* - Slotted Ceiling Runner — As an alternate to the ceiling runner in (Item 2A), slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2C). Ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, and secured with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610mm) OC before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material. BRADY CONSTRUCTION INNOVATIONS INC, DBA SLIPTRACK SYSTEMS

CALIFORNIA EXPANDED METAL PRODUCTS CO — CST **CLARKDIETRICH BUILDING SYSTEMS** — Type SLT, SLT-H RAM SALES L L C — RAM Slotted Track SCAFCO STEEL STUD MANUFACTURING CO **TELLING INDUSTRIES L L C** — True-Action Deflection Track THE STEEL NETWORK INC — VertiTrack VT, series,250VT, 362VT, 400VT,

A2. Light Gauge Framing* - Vertical Deflection Ceiling Runner — As an alternate to the ceiling runners in Items 2A and 2A1, vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened with runner. Slotted clip provided with step bushings for permanent fastening of steel studs. Flanges sized to accommodate steel studs (Item 2C). Vertical deflection ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, and secured with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610mm) OC before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material. **THE STEEL NETWORK INC** — VertiTrack VTD250, -362, -400, -600, -800

A3. Light Gauge Framing*- Notched Ceiling Runner — As an alternate to the ceiling runners in Items 2A through 2A2, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2C). Notched ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, secured with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610mm) OC before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material. **OLMAR SUPPLY INC** — Type SCR

B. Steel Attachment Clips — (Optional - Not Shown) - When spray applied fireproofing is used ceiling runner may be secured to deck with Z-shaped clips formed from min. 1 in. (25 mm) long strips of min 20 ga galv steel. Length of clips should not exceed the width (thickness) of the wall. Clips to be sized to extend through the thickness of the spray-applied fire-resistive material on the bottom of the steel deck with 1-1/2 or 2 in. (38 or 51 mm) long upper and lower legs. Legs of clips fastened to valleys of steel deck (prior to application of spray-applied fire-resistive materials) and top of ceiling runner with steel fasteners or welds. Clips spaced max 24 in. (610 mm) OC

in. (13 to 19 mm) less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. When vertical deflection ceiling runner (Item 2A2) is used, steel studs secured to slotted vertical deflection clips, through bushings, with steel screws at midheight of each slot. Stud spacing not to exceed 24 in. (610 mm) OC.

C. **Studs** — Steel studs to be min 3-5/8 in. (92 mm) wide. Studs cut 1/2 to 3/4

gypsum board is required in the individual Wall and Partition Design. For 2 hr assembly, two layers of 5/8 in. (16 mm) thick gypsum board is required in the individual Wall and Partition Design. For both hourly ratings, a nominal 3/4 in. (19 mm) gap shall be maintained between the top of the gypsum board and the bottom surface of the steel deck and the top row of screws shall be installed into the studs 3 in. (76 mm) below the valleys of the steel floor units.

D. **Gypsum Board*** — For 1 hr assembly, one layer of 5/8 in. (16 mm) thick

U.L. DESIGN NO. HW-D-0184

The hourly fire rating of the joint system is equal to the hourly rating of

ARCHITECT OF RECORD

CYNTHIA D. WALSTON

3. Fill, Void or Cavity Material* — Sealant - Max separation between

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 601S

4. Forming Material — (Optional, Not Shown) - Mineral wool insulation,

fiberglass batt insulation or polyurethane/polyethylene foam backer rod.

of the steel deck, flush with each surface of wall

accommodate the required thickness of fill material.

bottom of floor or roof and top of wall is 3/4 in. (19 mm). The joint system

is designed to accommodate a max 17 percent compression or extension

from its installed width. Min 5/8 in. (16 mm) thickness of fill material installed

on each side of the wall between the top of the gypsum board and the bottom

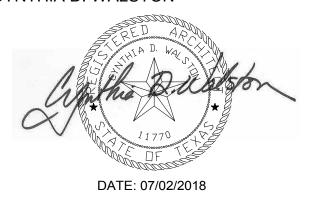
Elastomeric Firestop Sealant or CP 606 Flexible Firestop Sealant or CFS-S SIL

Forming material to be recessed from both surfaces of the 2 hr fire rated wall to

* Indicates such products shall bear the UL or cUL Certification Mark for

jurisdictions employing the UL or cUL Certification (such as Canada),

GG Sealant. L Ratings apply when CP 606 or CFS-S SIL GG Sealant is used.



REVISIONS 08/17/2018 ADDENDUM NO. 2

PROJECT NAME



The University of Texas

Health Science Center at Houston

Jane and Robert Cizik

School of Nursing

SIMULATION LAB

PROJECT NUMBER

045017.0000

ISSUE FOR

CONSTRUCTION

07/02/2018

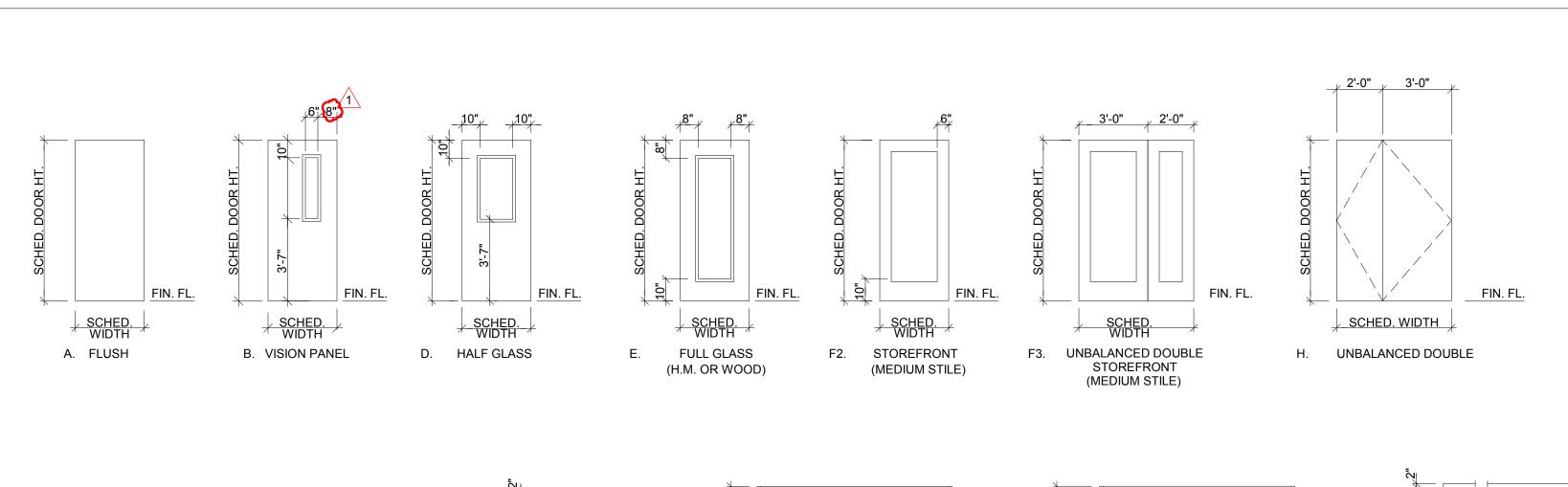
DESIGNS

DRAWING TITLE FIRE RESISTANCE

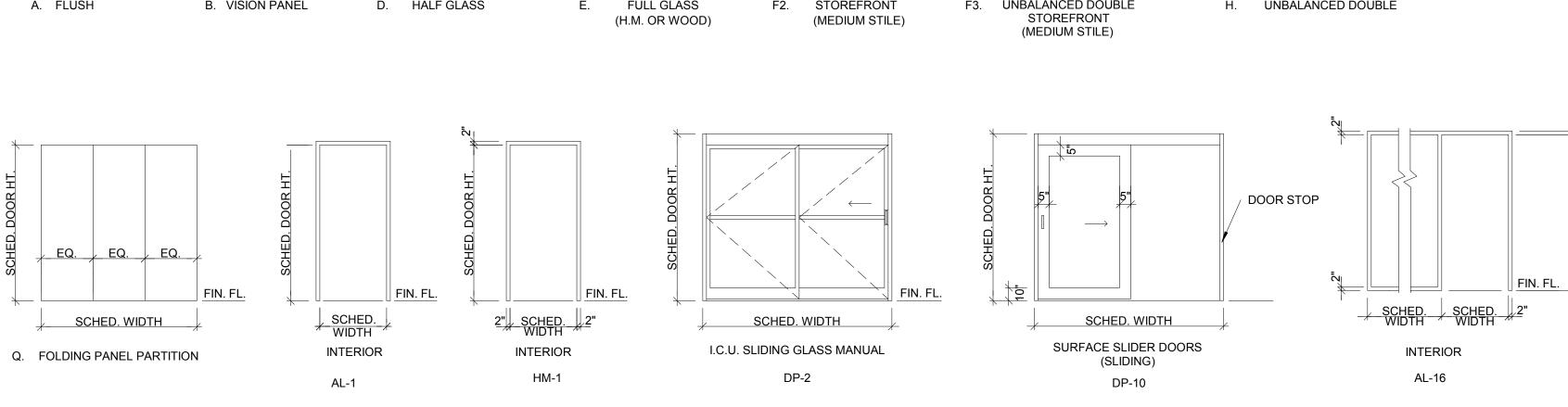
DRAWING NUMBER

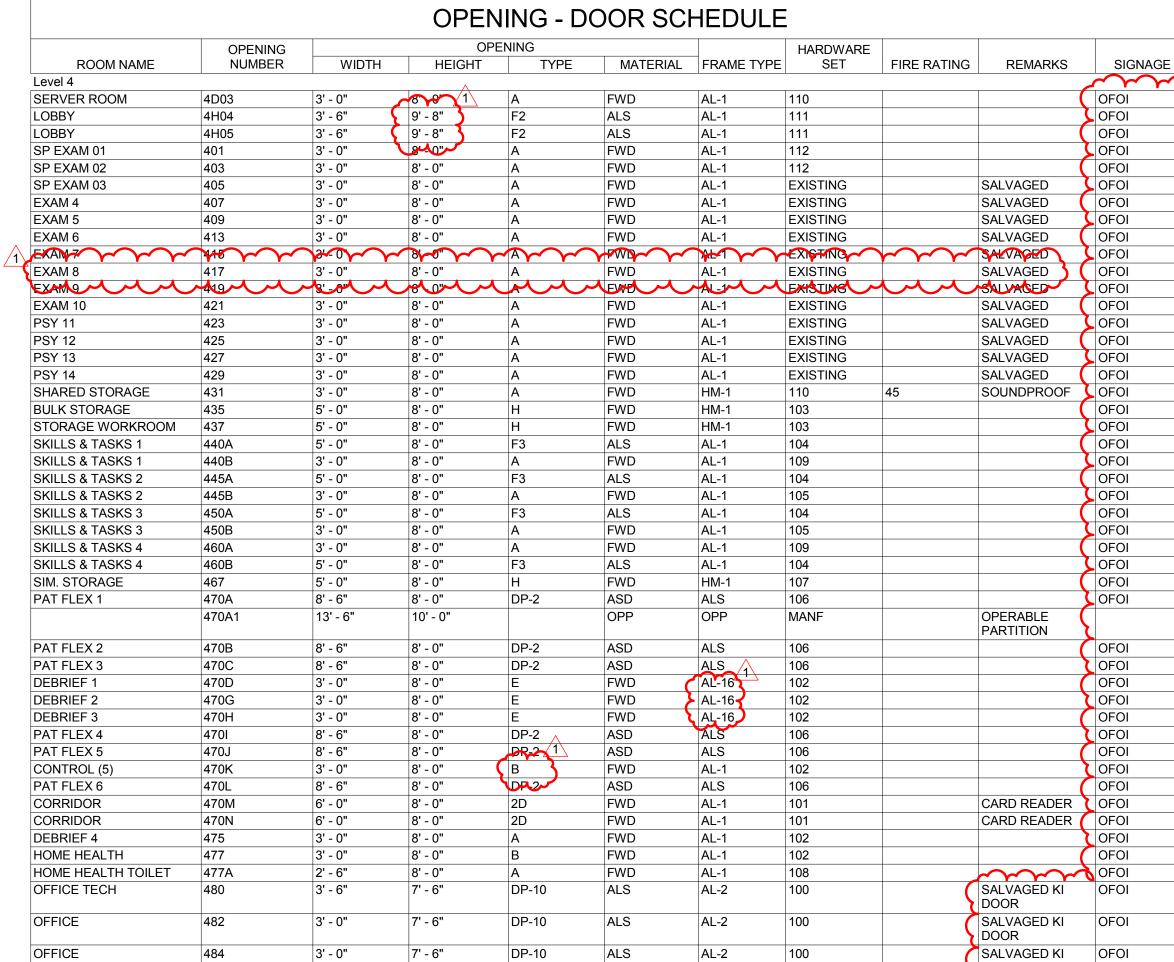
3B. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 3) and Item 3A - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the

6. **Resilient Channel** — (Optional-Not Shown) — 25 MSG galv steel resilient



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| | | | OPE | viivG - v | VINDOVV | SCHEDU | JLE | | | |
|-----------|---------|---------|---------|-----------|----------|------------|----------|-------------|-------------------|----------|
| | OPENING | | OPE | NING | | | HARDWARE | | | |
| ROOM NAME | NUMBER | WIDTH | HEIGHT | TYPE | MATERIAL | FRAME TYPE | SET | FIRE RATING | REMARKS | REVISION |
| CORRIDOR | 5 | 9' - 0" | 6' - 6" | | | | | SI | EE DETAIL A2/A6.2 | |





DATE: 07/02/2018

08/17/2018 ADDENDUM NO. 2

Jane and Robert Cizik School of Nursing

The University of Texas **Health Science Center at Houston**

SIMULATION LAB

GENERAL NOTES TO OPENING SCHEDULE

- A. FOR FRAME THROAT REQUIREMENTS, SEE "PARTITION TYPES" AND PARTITION REFERENCES ON FLOOR PLANS OR FIELD VERIFY EXISTING PARTITION THICKNESS. SEE REFERENCED DETAILS FOR REQUIRED ANCHORAGE.
- FRAME TYPE: SEE "CODE TO OPENING SCHEDULE" FOR DEFINITION OF DESIGNATIONS IN "OPENING TYPE" COLUMN. THE SCHEDULED FRAME TYPE DEFINES THE CONFIGURATION OF THE OPENING AND INDICATES DETAIL
- OPENING SIZE: FRAMED OPENINGS THE TOTAL WIDTH OF THE OPENING IS THE FRAME DIMENSION (PROFILE) ADDED TO SCHEDULED DOOR SIZE. SEE REFERENCED DETAILS FOR RELATION OF FRAME SIZE TO ACTUAL SIZE OF WALL OR PARTITION OPENING. SEE FLOOR PLANS FOR GLAZED OPENING WIDTHS.
- SEE CODE TO FINISH SCHEDULE CONTAINED ON THE "FINISH SCHEDULE" OR THE INTERIOR DESIGN DRAWINGS FOR DEFINITION OF HARDWOOD SPECIES, PAINT COLORS AND PLASTIC LAMINATE COLORS. E. SEE HARDWARE SPECIFICATIONS FOR DESCRIPTION OF "HARDWARE SET". SEE
- DETAIL A6/A6.2 FOR MOUNTING HEIGHT OF FINISH HARDWARE. DOOR THICKNESS SHALL BE 1-3/4 INCHES UNLESS OTHERWISE NOTED. G. SEE "CODE TO OPENING SCHEDULE" FOR DOOR, FRAME, AND TRANSOM
- MATERIAL ABBREVIATIONS. H. THE CLEARANCE BETWEEN THE FLOOR AND THE BOTTOM OF THE DOOR AT FIRE RATED DOORS SHALL NOT EXCEED LIMITS SET BY THE APPLICABLE
- CODES. THE CLEARANCE BETWEEN THE FLOOR AND THE BOTTOM OF THE DOOR ON NON-RATED DOORS SHALL NOT EXCEED 3/4". I. ALL GRAPHICS INDICATED WILL BE DETAILED, FURNISHED AND INSTALLED BY OWNERS GRAPHICS SUPPLIER (NIC).
- DOOR AND WINDOWS IN EXIT ENCLOSURES MUST MEET IBC 714.2.4: "THE MAXIMUM TRANSMITTED TEMPERATURE END POINT SHALL NOT EXCEED 450 DEGREES F, ABOVE AMBIENT TEMPERATURE AT THE END OF 30 MINUTES OF THE FIRE EXPOSURE OF STANDARD FIRE TEST EXPOSURE."
- K. ALL DOORS AT SMOKE BARRIERS AND PRESSURIZED STAIR ENCLOSURES SHALL HAVE SMOKE SEAL GASKETS AT THE HEAD AND JAMB.

ABBREVIATION TO OPENING SCHEDULE

- ALS ALUMINUM STOREFRONT DOOR AND FRAME
- ASD ALUMINUM SLIDING DOOR FWD WOOD DOOR, HARDWOOD VENEER, PREFINISHED
- HM HOLLOW METAL OFS FIRE SHUTTER, VERTICAL COILING
- OPP OPERABLE PANEL PARTITION PA PREFINISHED ALUMINUM (KNOCK DOWN) FRAME
- DESIGNATION IN THE FIRE RATING COLUMN OF THE OPENING SCHEDULE
- INDICATES A FIRE RATED DOOR, FRAME, AND HARDWARE AS FOLLOWS: "CLASS C" 1/3 HOUR RATING (20 MINUTE)
- 20 "CLASS C" 3/4 HOUR RATING (45 MINUTE)
- "CLASS C" 1 HOUR RATING (60 MINUTE) 90 "CLASS B" 1 1/2" HOUR RATING (90 MINUTE)

PROJECT NUMBER

045017.0000

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CONSTRUCTION

07/02/2018

DRAWING TITLE

OPENING & FRAME **TYPES**

DRAWING NUMBER

GENERAL NOTES TO PLANS A. INFORMATION SHOWN OR REFERENCED ON ENLARGED AND/OR 1/4" SCALE DRAWINGS WILL GENERALLY NOT BE SHOWN ON THE SMALLER SCALE DRAWINGS. B. PARTITION TYPES ARE SCHEDULED ON PLANS BY NUMBER. ALL PARTITION TYPES ARE TYPE 13.3S UNLESS NOTED OTHERWISE. SEE THE "GENERAL NOTES TO PARTITION TYPES" ON A11.1 AND PARTITION TYPES ON SHEET A11.1 FOR THE DEFINITION OF PARTITION TYPE REFERENCES KEYED ON PLANS. C. FIELD COORDINATE ALL FIELD ROUTED PIPE, CONDUIT RUNS, ETC., WITH LOCATIONS OF RECESSED AREA NOT IN SCOPE ACCESSORIES AND EQUIPMENT. IN THE EVENT OF A CONFLICT, ACCESSORY LOCATIONS TAKE D. CLOSE ALL JOINTS BETWEEN PLUMBING FIXTURES/ACCESSORIES AND DISSIMILAR MATERIALS W/SEALANT (I.E. BETWEEN SINKS AND COUNTERTOPS, TOILET FIXTURES AND ACCESSORIES TO WALL, ETC.) LEGEND CABINET NUMBERS NOTED ON ENLARGED PLANS REFER TO CABINET COMPONENT NUMBERS, FIXTURES, ACCESSORIES, ETC. THAT ARE DEFINED OR ELEVATED ON SHEET A9.0A UNLESS SPECIFIC DETAIL F. PLAN DIMENSIONS ARE TO FINISHED FACE OF PARTITIONS AND GENERALLY ARE TIED TO A COLUMN CENTERLINE UNLESS SPECIFICALLY SHOWN CENTERED ON A PARTICULAR BUILDING ELEMENT I.E. A CHASE WALL, WINDOW MULLION, ETC. O. STANDARD EQUIPMENT WALL MOUNTING HEIGHTS, SEE DETAIL A2/A6.1. P. MEDICAL EQUIPMENT WALL MOUNTING HEIGHTS, SEE DETAIL D3/A6.2. Q. FIRE PROTECTION EQUIPMENT WALL MOUNTING HEIGHTS, SEE DETAIL A6/A6.1. R. COMMUNICATION EQUIPMENT WALL MOUNTING HEIGHTS, SEE DETAIL D6/A6.2. S. EQUIPMENT MOUNTING HEIGHTS AT COUNTERTOPS, SEE DETAIL B3/A6.2. T. EQUIPMENT MOUNTING HEIGHTS AT DESKTOPS, SEE DETAIL B4/A6.2. (A.1) 318 SF 470H DEBRIEF 3 312 SF 470D DEBRIEF 1 13.3 S 445B PAT FLX 4 165 SF 470I PAT FLX 3 154 SF SKILLS AND TASKS 4 470C 1237 SF 460 SKILLS & TASKS 4 PAT FLEX 108 SF 470E SKILLS AND TASKS 3 2185 SF 445 SKILLS & TASKS 2 PAT FLEX 3 PAT FLEX 4 1957 SF 450 A.9— NURSE STN SKILLS & TASKS 3 9' - 1 3/4" PAT FLX 5 158 SF 470J PAT FLEX 2 149 SF 470B PAT FLEX 2 477A HOME HEALTH TOILET 477/ PAT FLEX 5 305 SF 470K CONTROL (5) 265 SF 130 IDF PAT FLEX 1 324 SF 477 14' - 4" PAT FLX 6 11.3 470A HOME HEALTH CL.TYP 1' - 8" TYP. _ ALIGN _ 4H05 805 SF 4H04 CORRIDOR 24' - 9 5/8" OFF. TECH (4)
232 SF
480 C — (C.1)— 13.372 SF 4D03 STORAGE
314 SF
467
SIM. STORAGE STORAGE
327 SF
435
BULK STORAGE OFFICE TECH OFFICE 266 SF 482 1630 SF 4H00 LOBBY 437 STORAGE SKILLS AND TASKS 1

1856 SF

440

SKILLS & TASKS 1 DEBRIEF 4
434 SF
475
DEBRIEF 4 SERVER ROOM DATA 88 SF 4D02 DATA 4' - 2" TLT F 191 SF 4T01 DATA 93 SF 4D01 DATA 482 TLT M 169 SF 4T02 WOMEN'S TOILET MECH 538 SF 4M01 MECHANICAL 202 SF 4H06 CORRIDOR OFFICE 153 SF 484 MECH 404 SF 4M02 MECHANICAL MEN'S TOILET ELEC. 86 SF 4E02 ELEC. STORAGE 140 SF 431 93 SF 4E01 D SHARED STORAGE _ ALIGN _ 951 SF 4H01 CORRIDOR 593 SF 4H02 CORRIDOR PSY 12 138 SF 425 PSY 12 13.3F S PSY 11 163 SF 423 PSY 11 13.3F S PSY 14 183 SF 429 PSY 14 EXAM 10 150 SF 421 EXAM 10 447 STAIR 2 EXAM 7 EXAM 8 SP EXAM 03 SP EXAM 02 7.7 A6 Level 4 - FLOOR PLAN

1/8" = 1'-0" 6 5

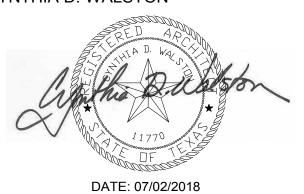
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Houston | Dallas | Columbus

ARCHITECT OF RECORD

CYNTHIA D. WALSTON



REVISIONS

1 08/17/2018 ADDENDUM NO. 2

PROJECT NAME



Jane and Robert Cizik
School of Nursing

The University of Texas
Health Science Center at Houston

SIMULATION LAB

PROJECT NUMBER

045017.0000 CIP 1601

ISSUE

ISSUE FOR CONSTRUCTION

DATE

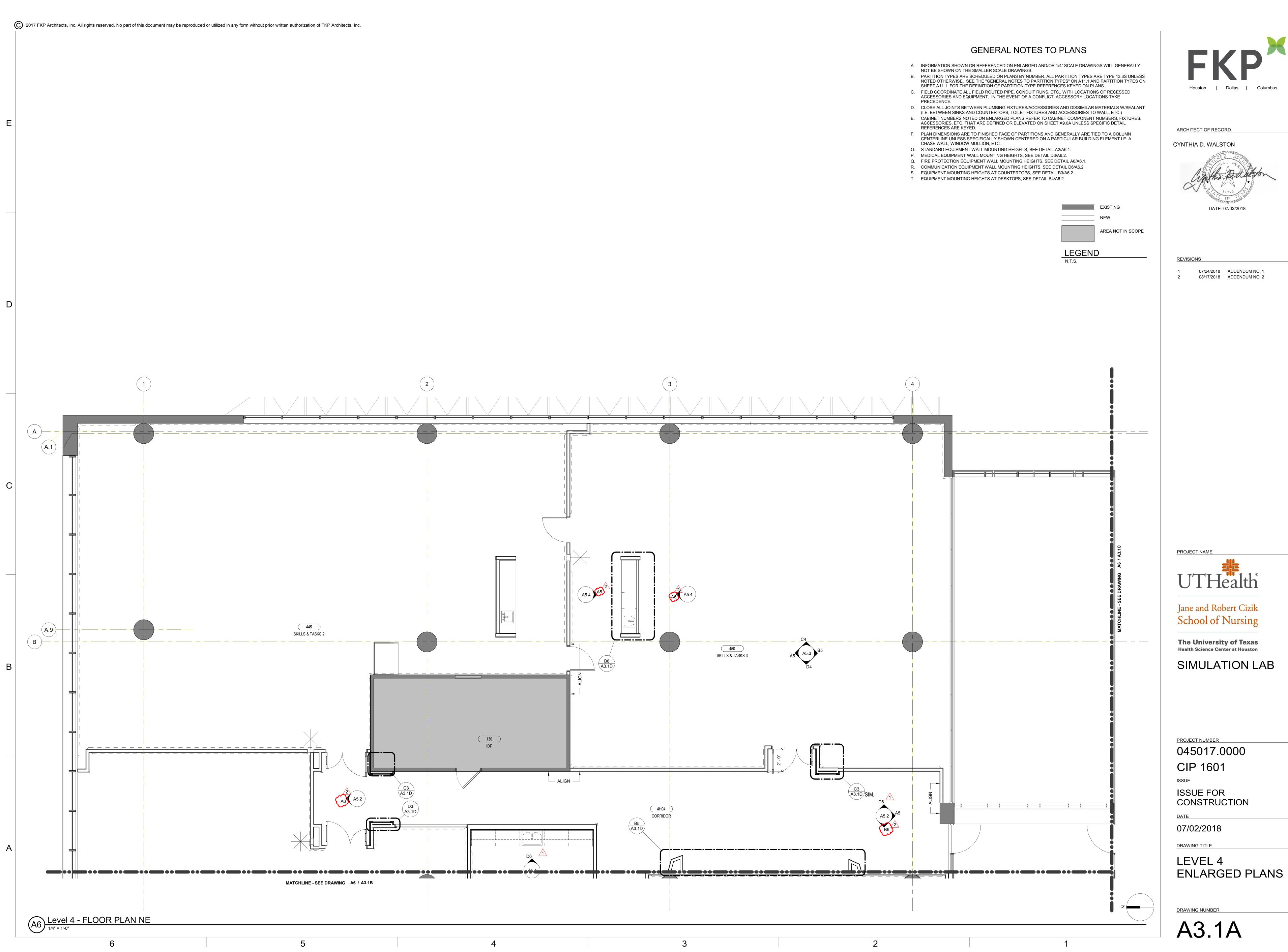
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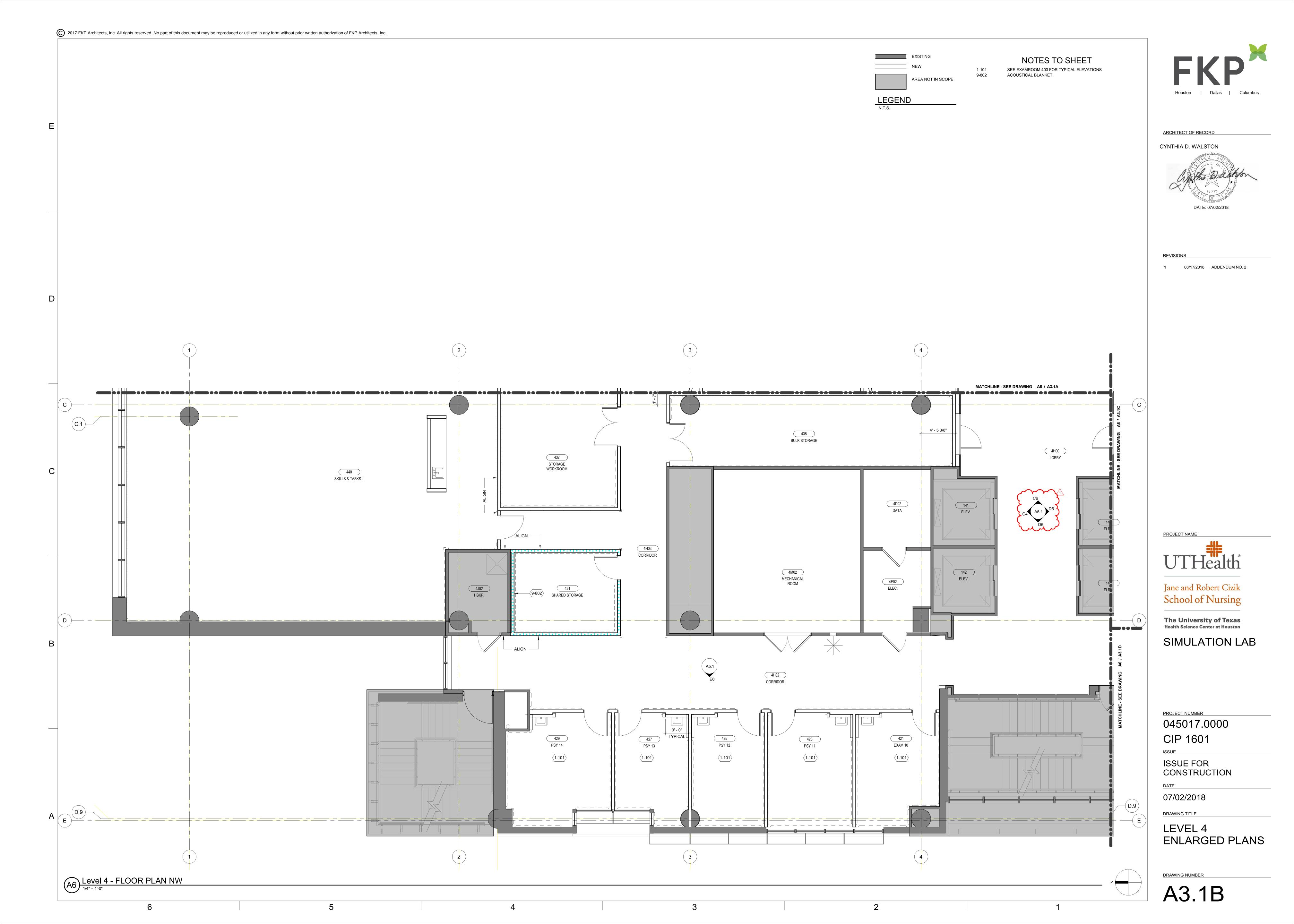
DRAWING TITLE

LEVEL 4 OVERALL FLOOR PLAN

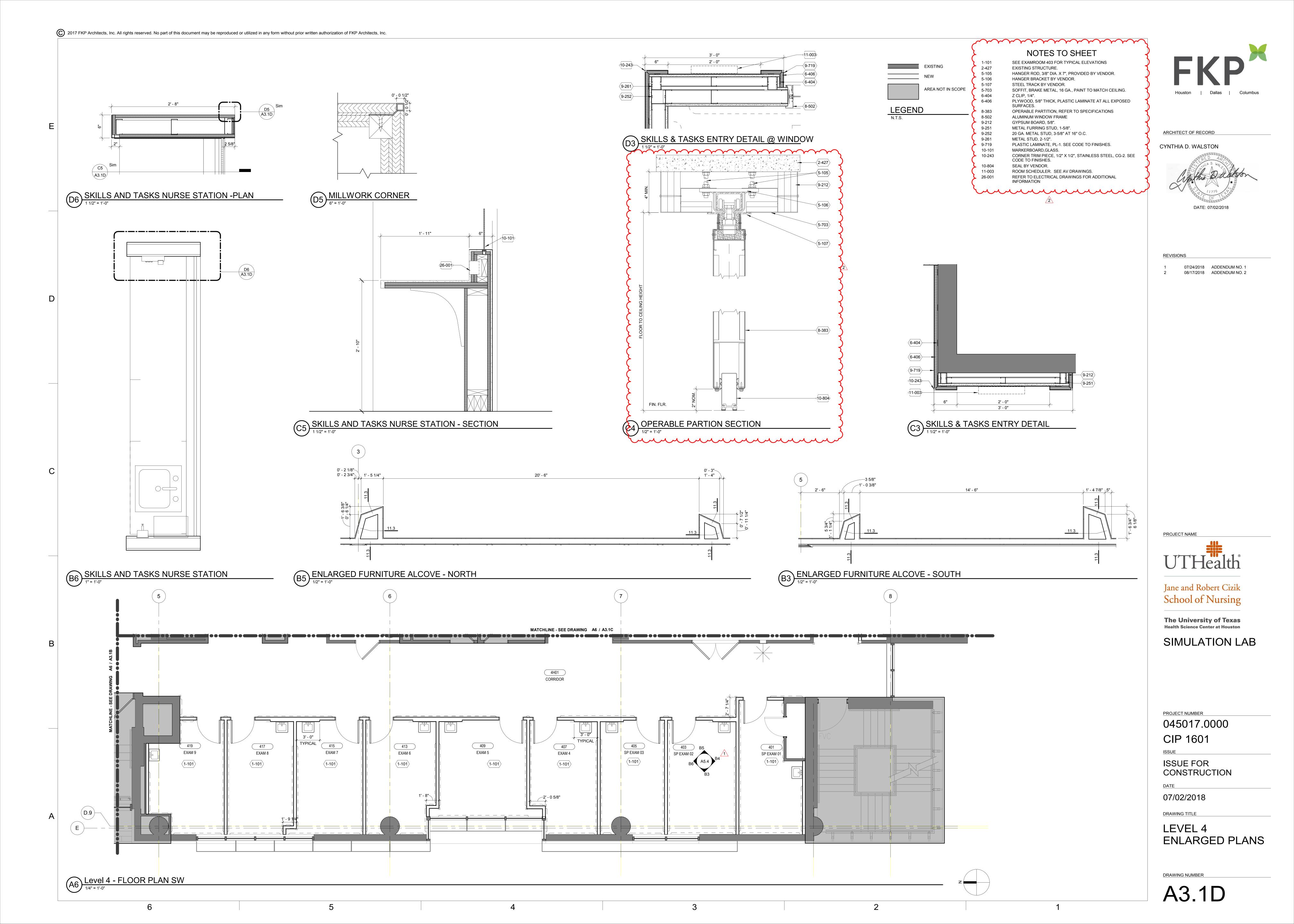
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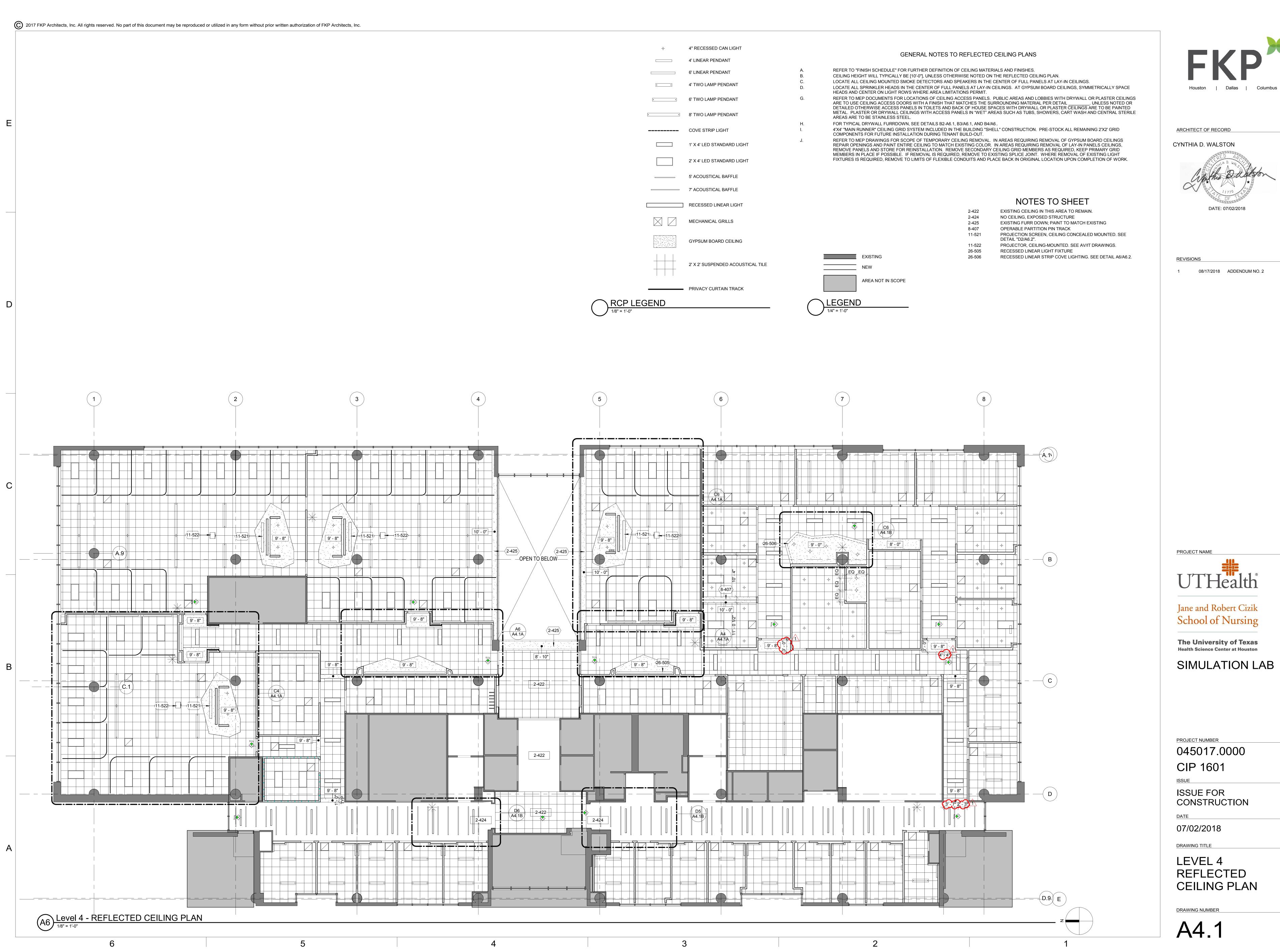
A2.1

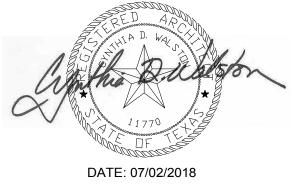


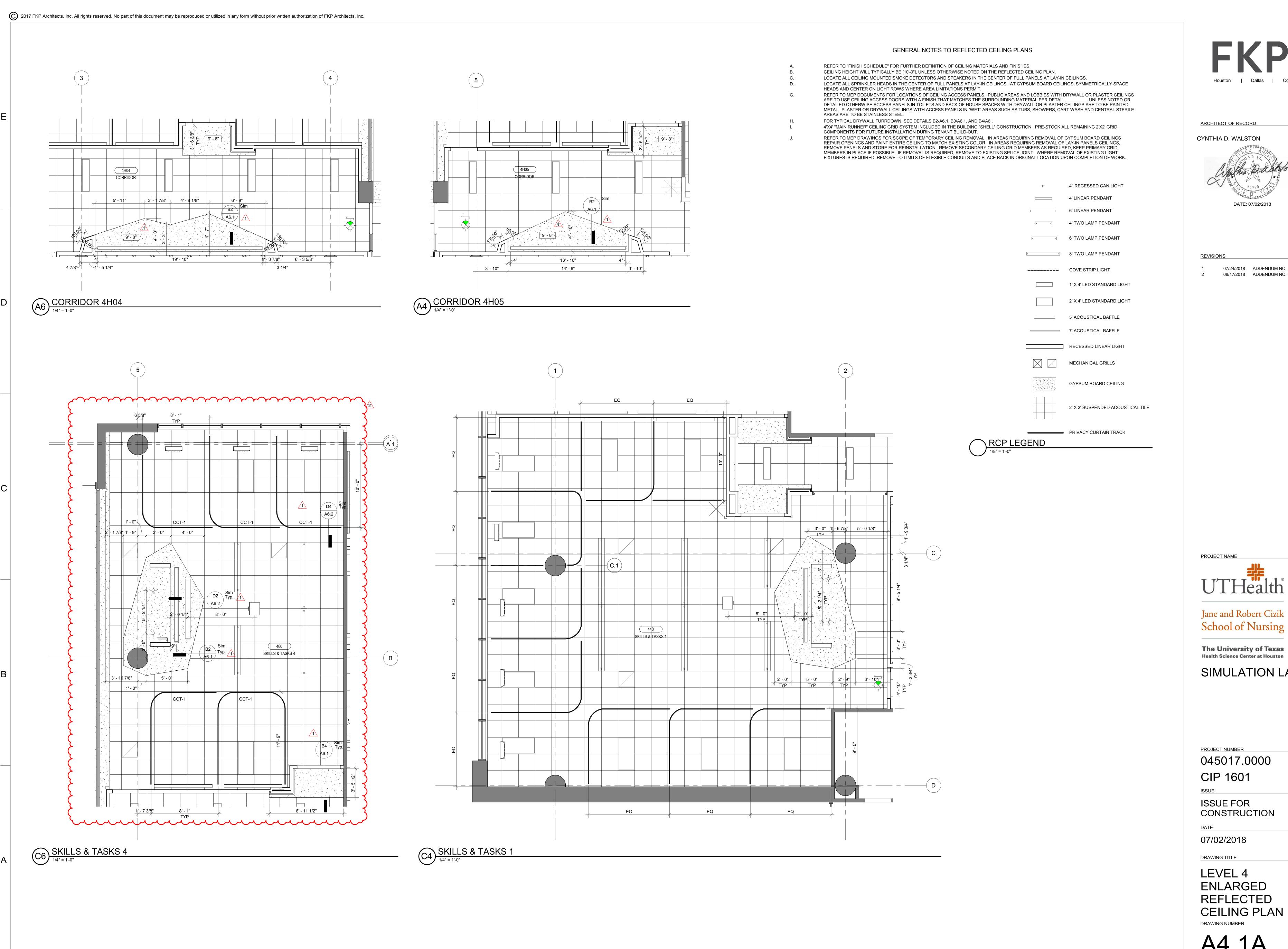












5





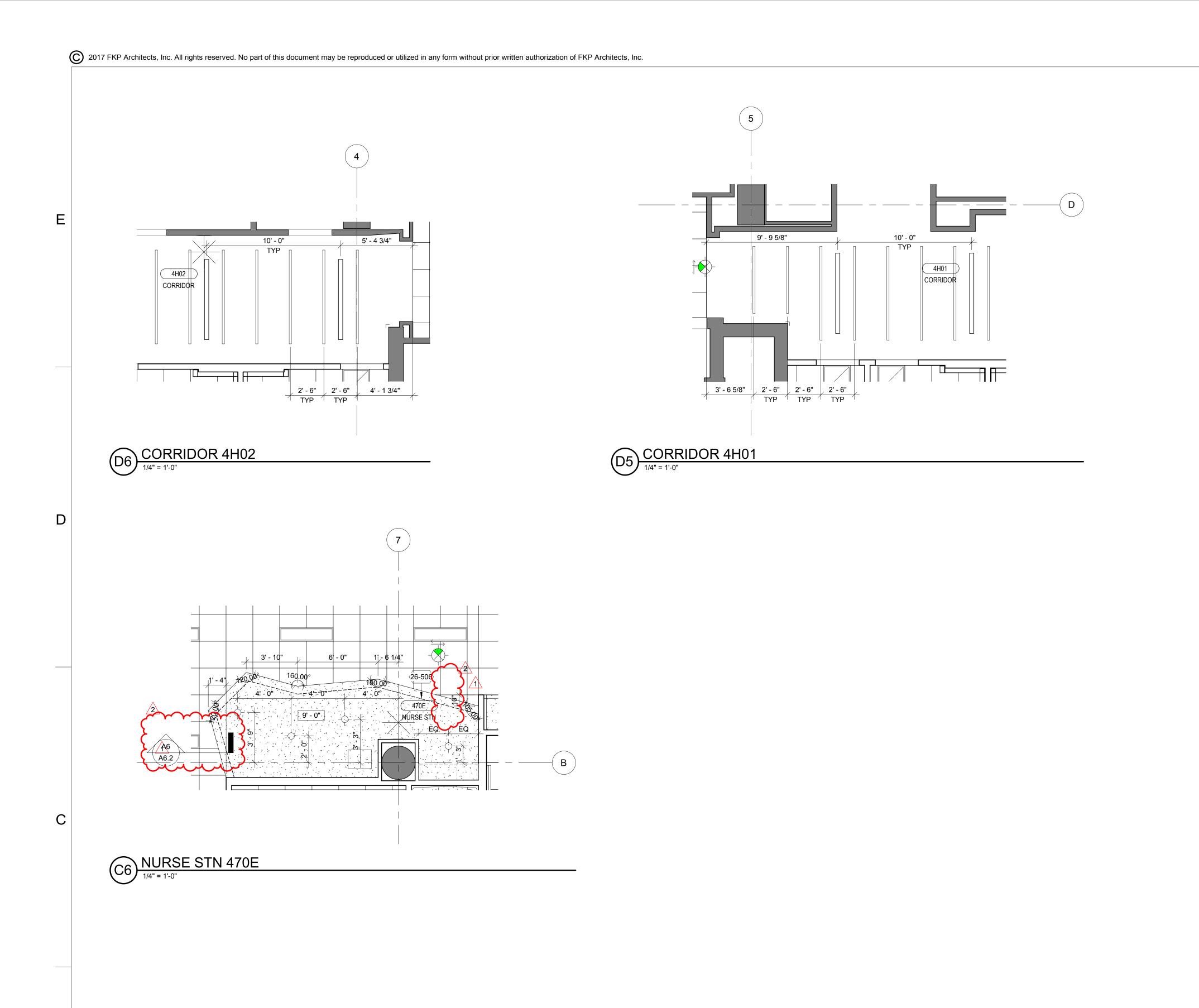
07/24/2018 ADDENDUM NO. 1 08/17/2018 ADDENDUM NO. 2

School of Nursing

SIMULATION LAB

ENLARGED REFLECTED **CEILING PLAN**

A4.1A



6

GENERAL NOTES TO REFLECTED CEILING PLANS

REFER TO "FINISH SCHEDULE" FOR FURTHER DEFINITION OF CEILING MATERIALS AND FINISHES.

CEILING HEIGHT WILL TYPICALLY BE [10'-0"], UNLESS OTHERWISE NOTED ON THE REFLECTED CEILING PLAN.

LOCATE ALL CEILING MOUNTED SMOKE DETECTORS AND SPEAKERS IN THE CENTER OF FULL PANELS AT LAY-IN CEILINGS.

LOCATE ALL SPRINKLER HEADS IN THE CENTER OF FULL PANELS AT LAY-IN CEILINGS. AT GYPSUM BOARD CEILINGS, SYMMETRICALLY SPACE HEADS AND CENTER ON LIGHT ROWS WHERE AREA LIMITATIONS PERMIT.

REFER TO MEP DOCUMENTS FOR LOCATIONS OF CEILING ACCESS PANELS. PUBLIC AREAS AND LOBBIES WITH DRYWALL OR PLASTER CEILINGS ARE TO USE CEILING ACCESS DOORS WITH A FINISH THAT MATCHES THE SUPPOLINDING MATERIAL PER DETAIL.

REFER TO MEP DOCUMENTS FOR LOCATIONS OF CEILING ACCESS PANELS. PUBLIC AREAS AND LOBBIES WITH DRYWALL OR PLASTER CEILINGS ARE TO USE CEILING ACCESS DOORS WITH A FINISH THAT MATCHES THE SURROUNDING MATERIAL PER DETAIL ______. UNLESS NOTED OR DETAILED OTHERWISE ACCESS PANELS IN TOILETS AND BACK OF HOUSE SPACES WITH DRYWALL OR PLASTER CEILINGS ARE TO BE PAINTED METAL. PLASTER OR DRYWALL CEILINGS WITH ACCESS PANELS IN "WET" AREAS SUCH AS TUBS, SHOWERS, CART WASH AND CENTRAL STERILE AREAS ARE TO BE STAINLESS STEEL.

FOR TYPICAL DRYWALL FURRDOWN, SEE DETAILS B2-A6.1, B3/A6.1, AND B4/A6..

4'X4' "MAIN RUNNER" CEILING GRID SYSTEM INCLUDED IN THE BUILDING "SHELL" CONSTRUCTION. PRE-STOCK ALL REMAINING 2'X2' GRID COMPONENTS FOR FUTURE INSTALLATION DURING TENANT BUILD-OUT.

REFER TO MEP DRAWINGS FOR SCOPE OF TEMPORARY CEILING REMOVAL. IN AREAS REQUIRING REMOVAL OF GYPSUM BOARD CEILINGS REPAIR OPENINGS AND PAINT ENTIRE CEILING TO MATCH EXISTING COLOR. IN AREAS REQUIRING REMOVAL OF LAY-IN PANELS CEILINGS, REMOVE PANELS AND STORE FOR REINSTALLATION. REMOVE SECONDARY CEILING GRID MEMBERS AS REQUIRED, KEEP PRIMARY GRID

MEMBERS IN PLACE IF POSSIBLE. IF REMOVAL IS REQUIRED, REMOVE TO EXISTING SPLICE JOINT. WHERE REMOVAL OF EXISTING LIGHT FIXTURES IS REQUIRED, REMOVE TO LIMITS OF FLEXIBLE CONDUITS AND PLACE BACK IN ORIGINAL LOCATION UPON COMPLETION OF WORK.

4" RECESSED CAN LIGHT
4' LINEAR PENDANT
6' LINEAR PENDANT
4' TWO LAMP PENDANT
6' TWO LAMP PENDANT

COVE STRIP LIGHT

1' X 4' LED STANDARD LIGHT

2' X 4' LED STANDARD LIGHT

RECESSED LINEAR LIGHT

GYPSUM BOARD CEILING

8' TWO LAMP PENDANT

5' ACOUSTICAL BAFFLE
7' ACOUSTICAL BAFFLE

MECHANICAL GRILLS

2' X 2' SUSPENDED ACOUSTICAL TILE

PRIVACY CURTAIN TRACK

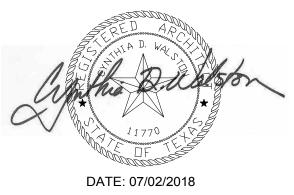
RCP LEGEND

1/8" = 1'-0"

FKP

ARCHITECT OF RECORD

CYNTHIA D. WALSTON



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1 07/24/2018 ADDENDUM NO. 1 2 08/17/2018 ADDENDUM NO. 2

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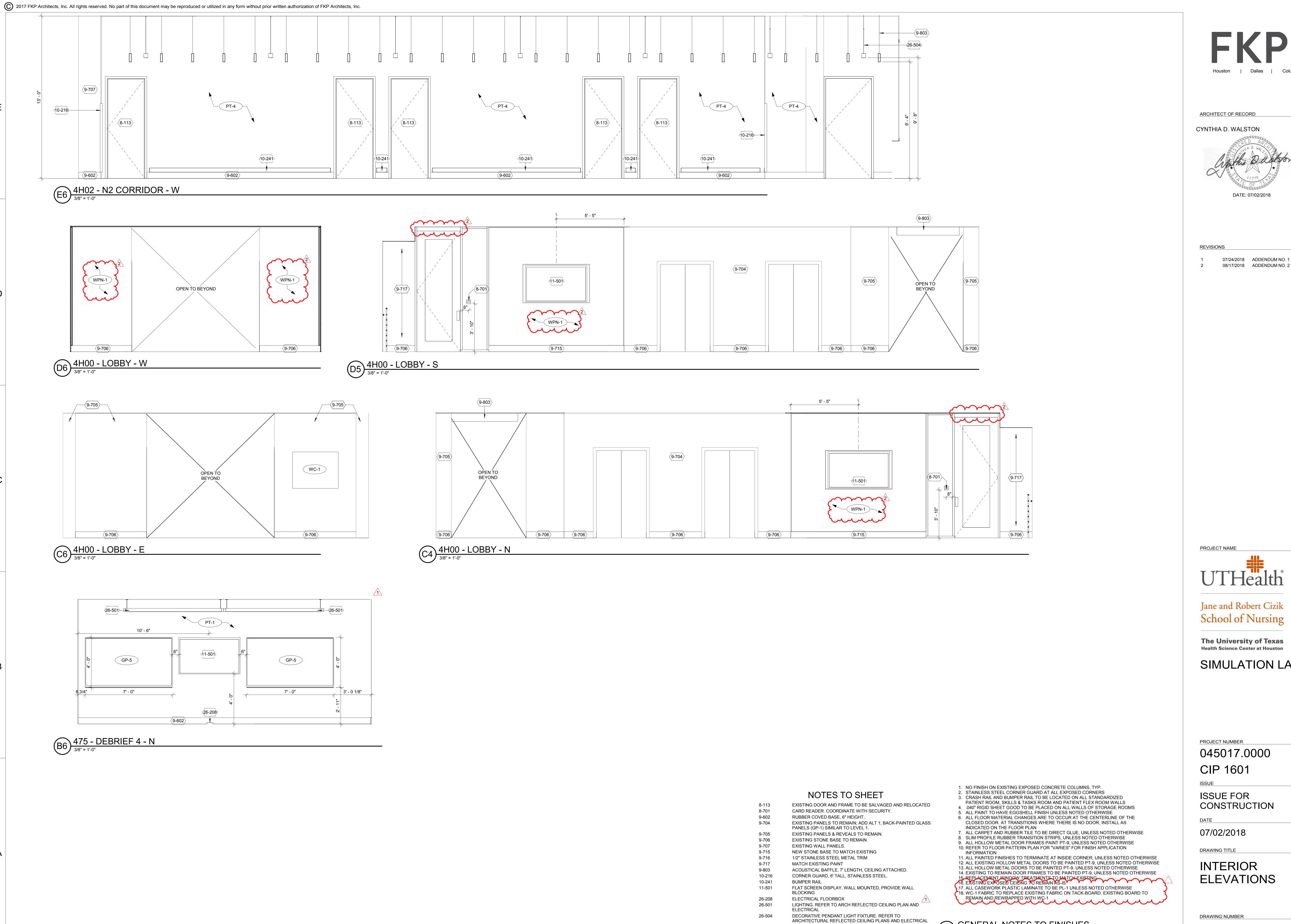
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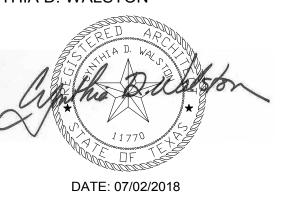
DRAWING TITLE

LEVEL 4
ENLARGED
REFLECTED
CEILING PLAN
DRAWING NUMBER

A4.1B

5





PROJECT NAME



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The University of Texas
Health Science Center at Houston

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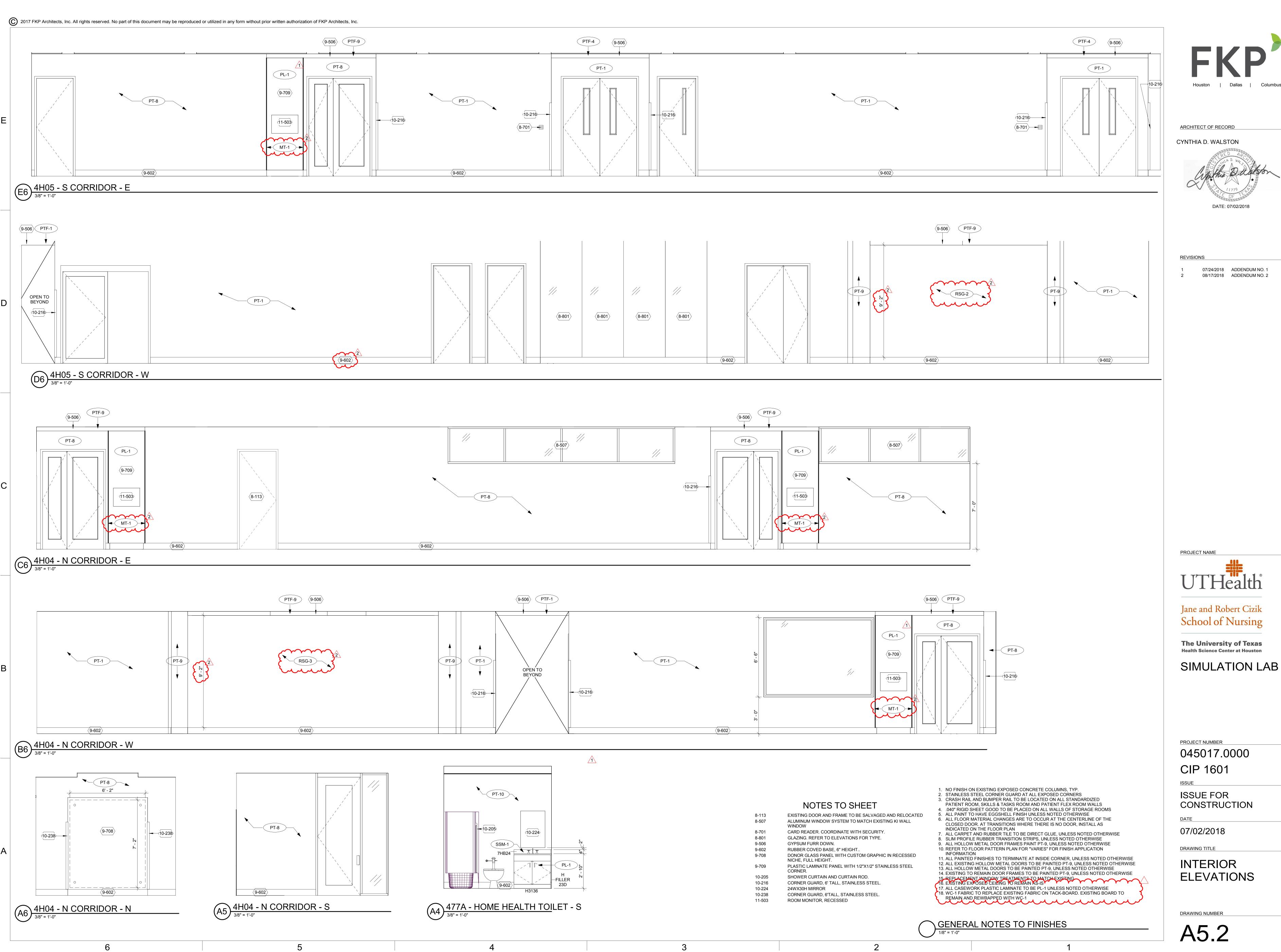
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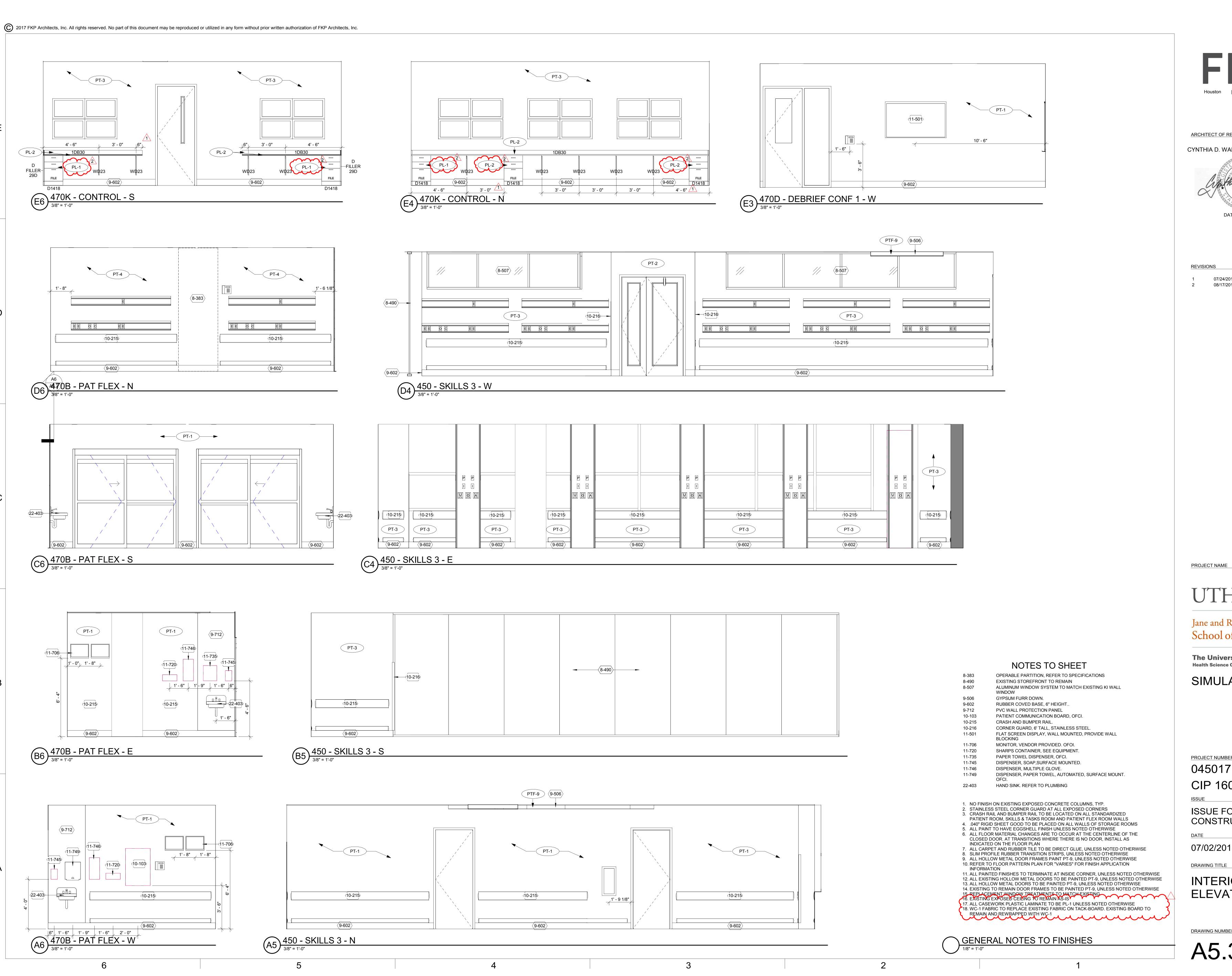
INTERIOR **ELEVATIONS**

DRAWING NUMBER

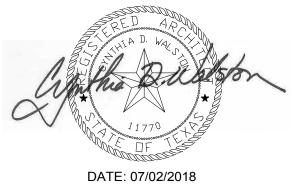
GENERAL NOTES TO FINISHES







CYNTHIA D. WALSTON



07/24/2018 ADDENDUM NO. 1 08/17/2018 ADDENDUM NO. 2

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The University of Texas
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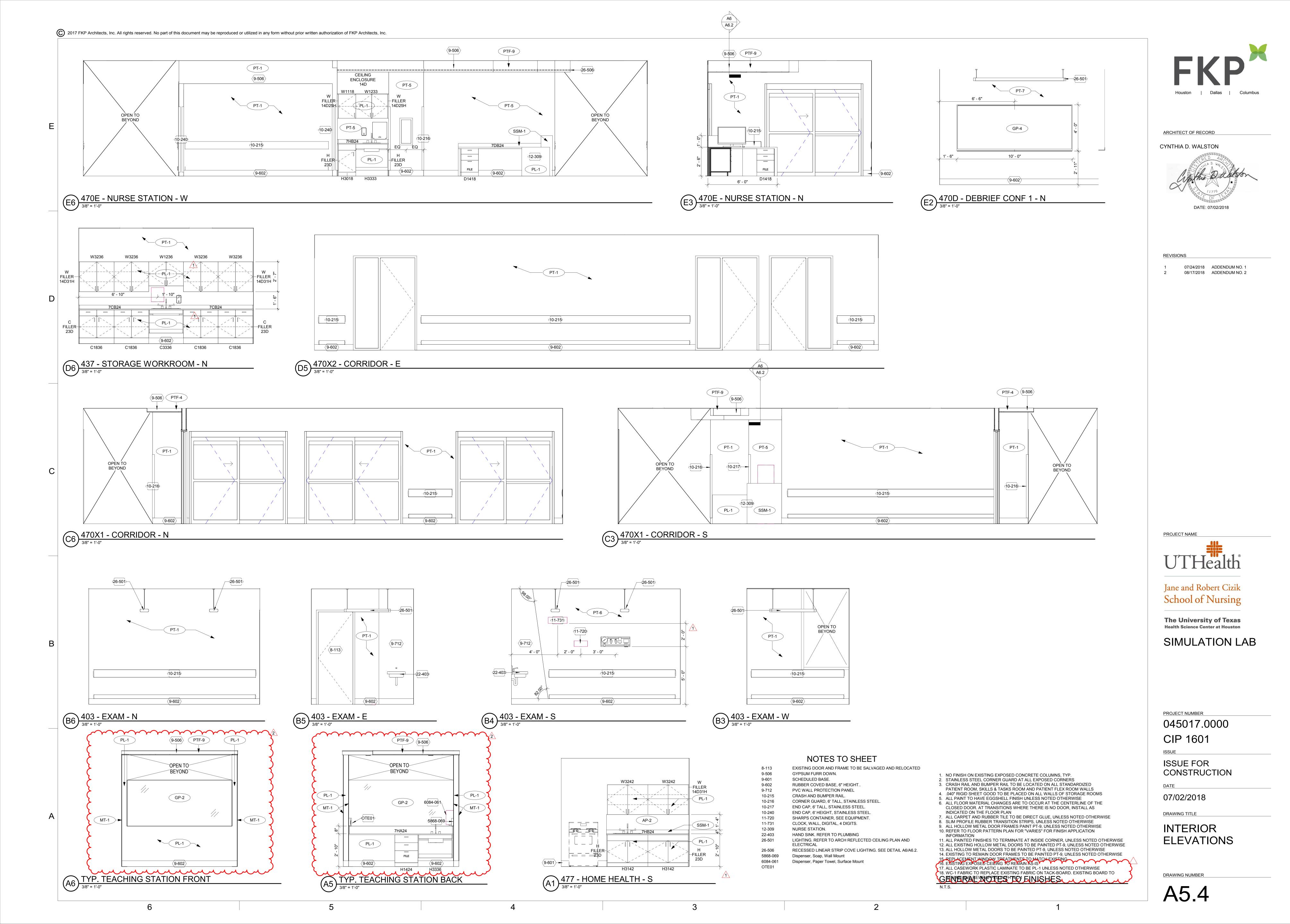
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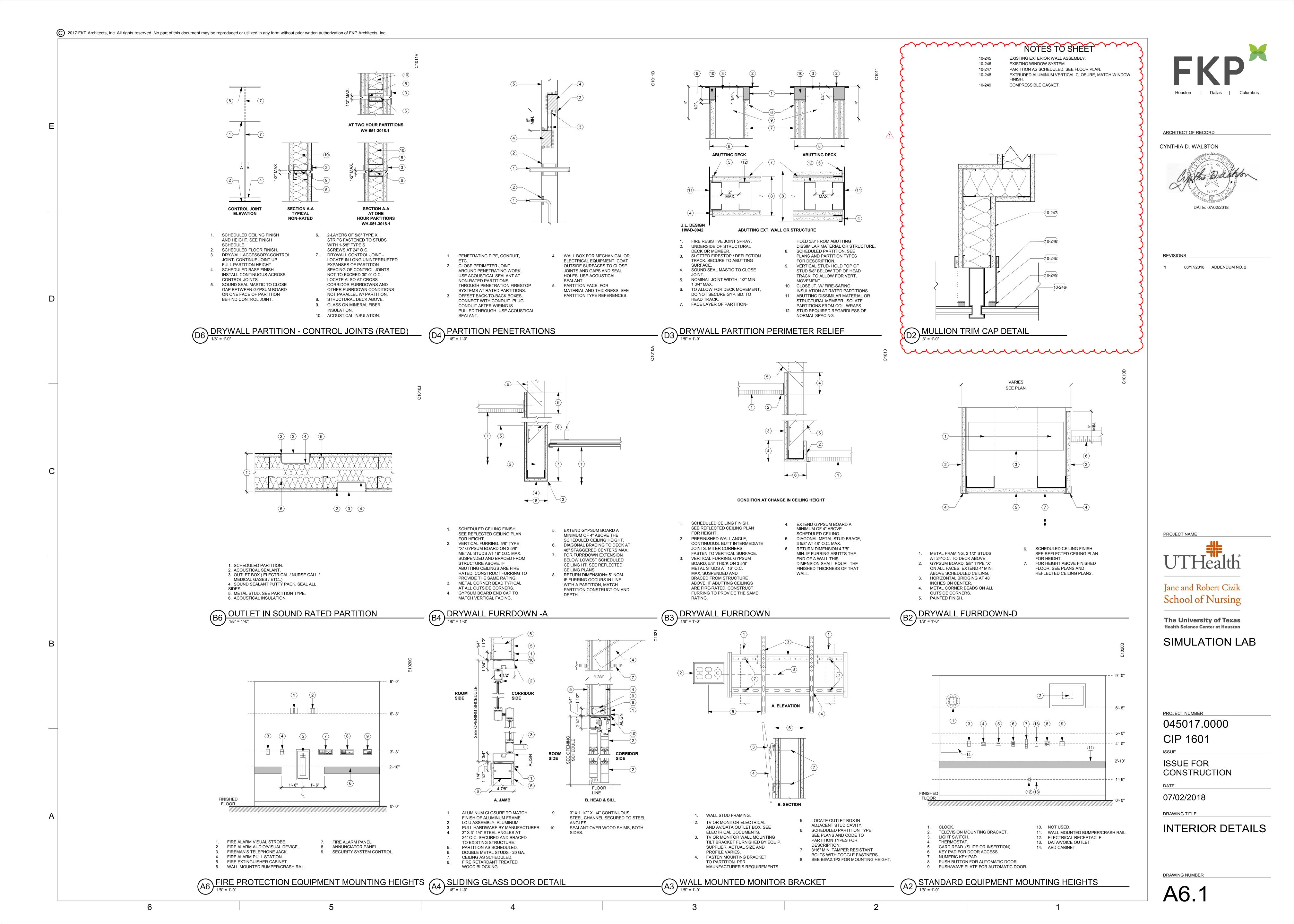
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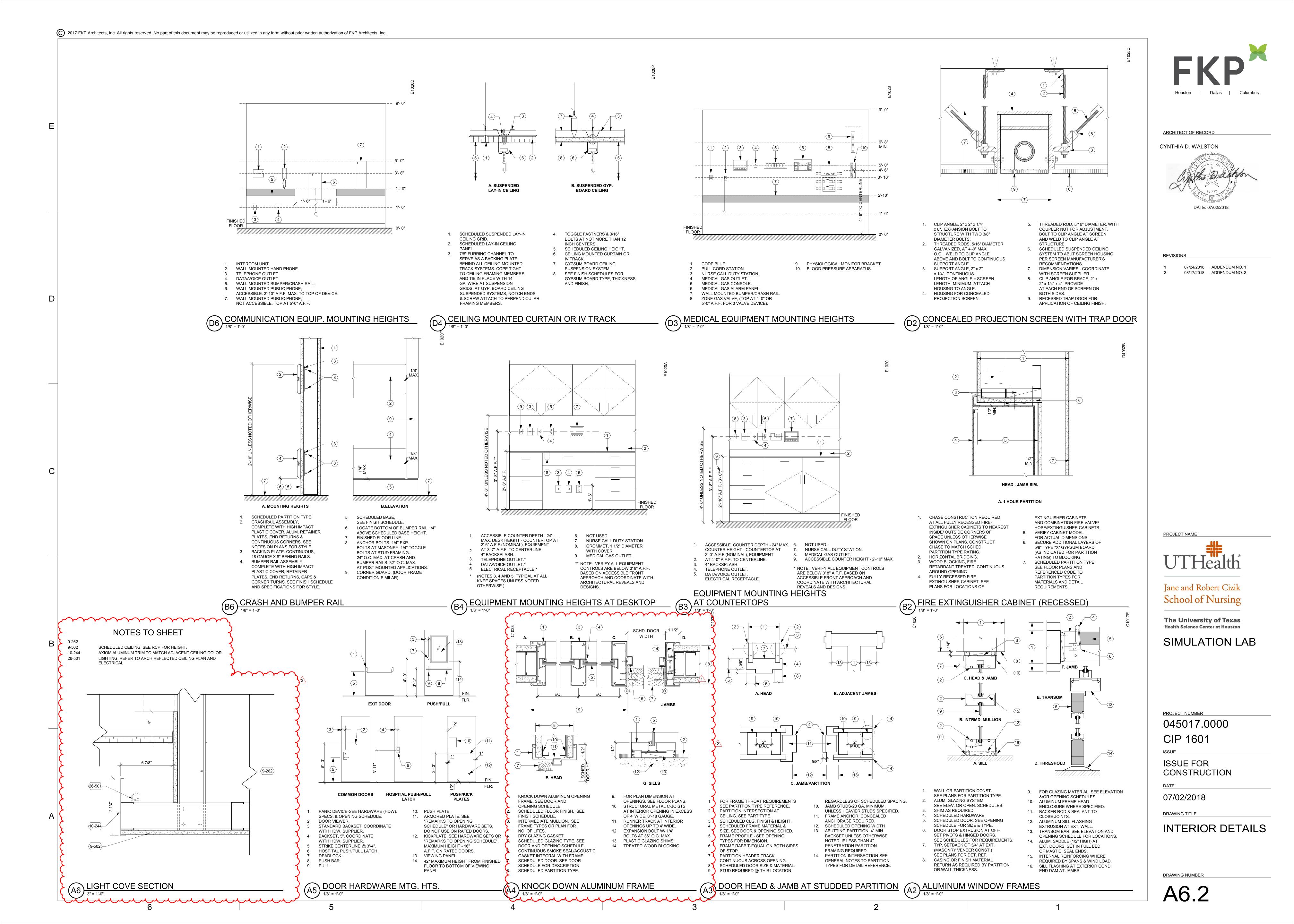
INTERIOR **ELEVATIONS**

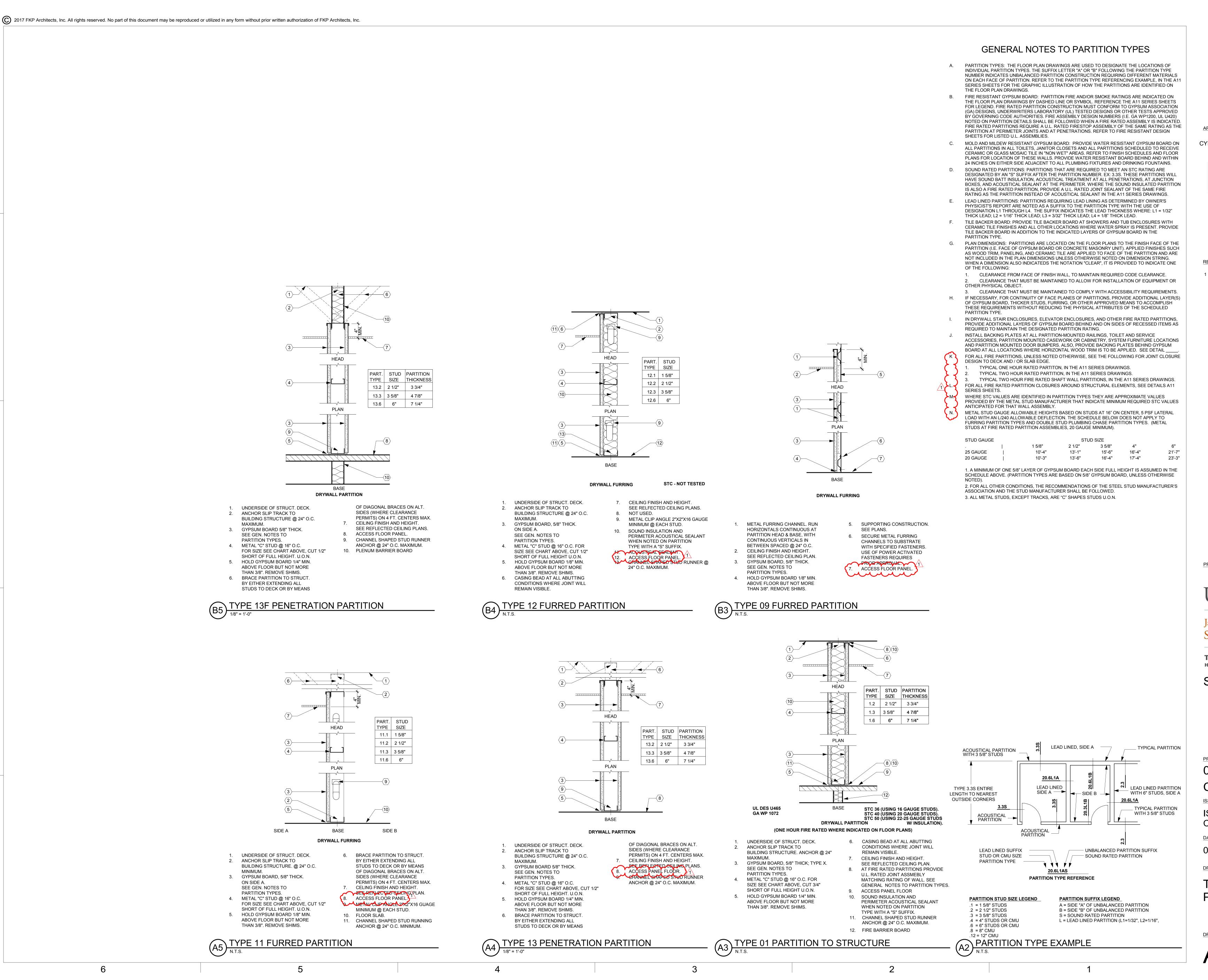
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A5.3



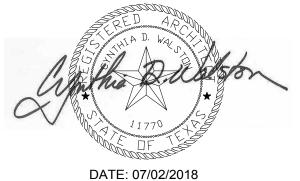








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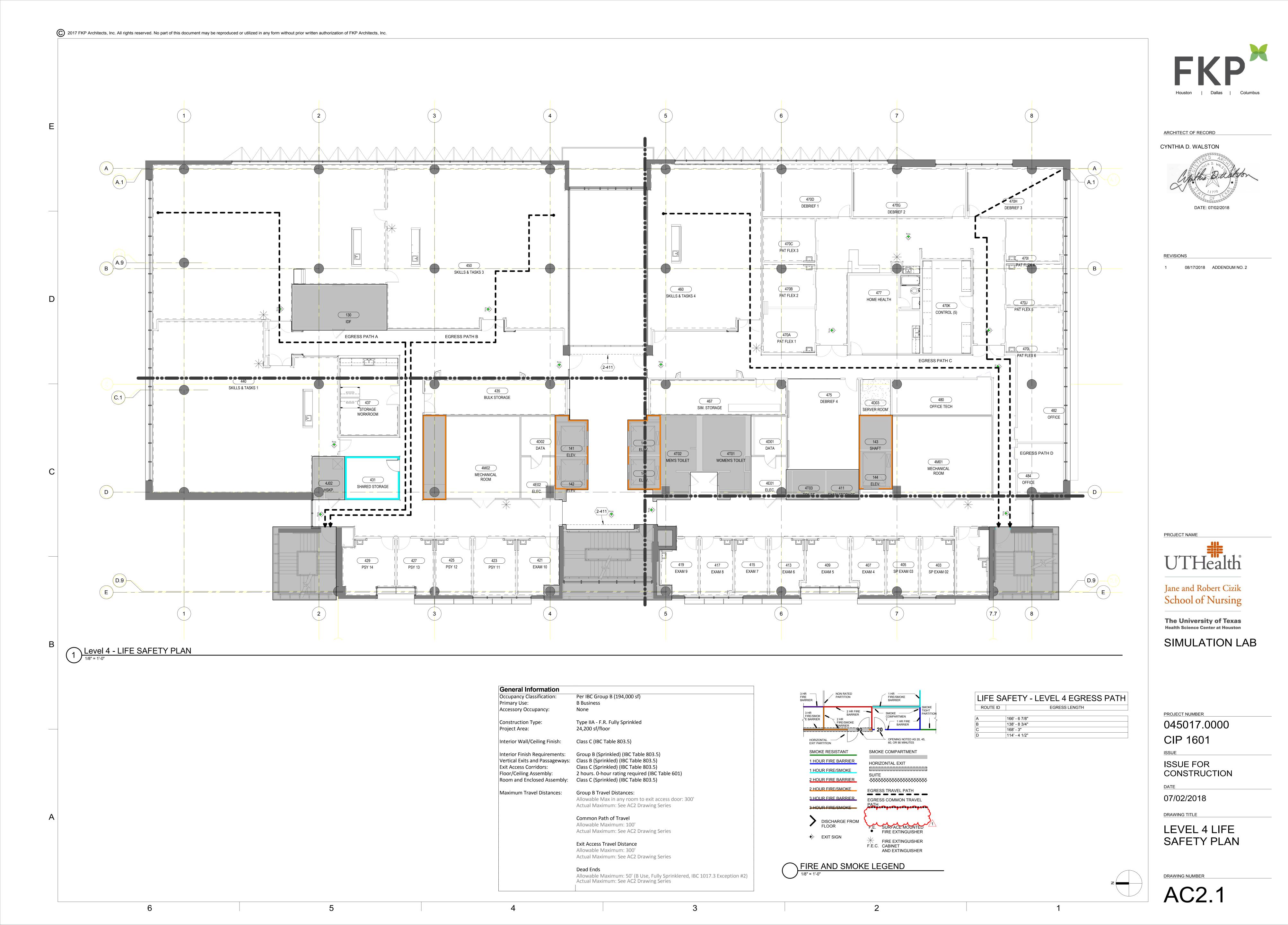
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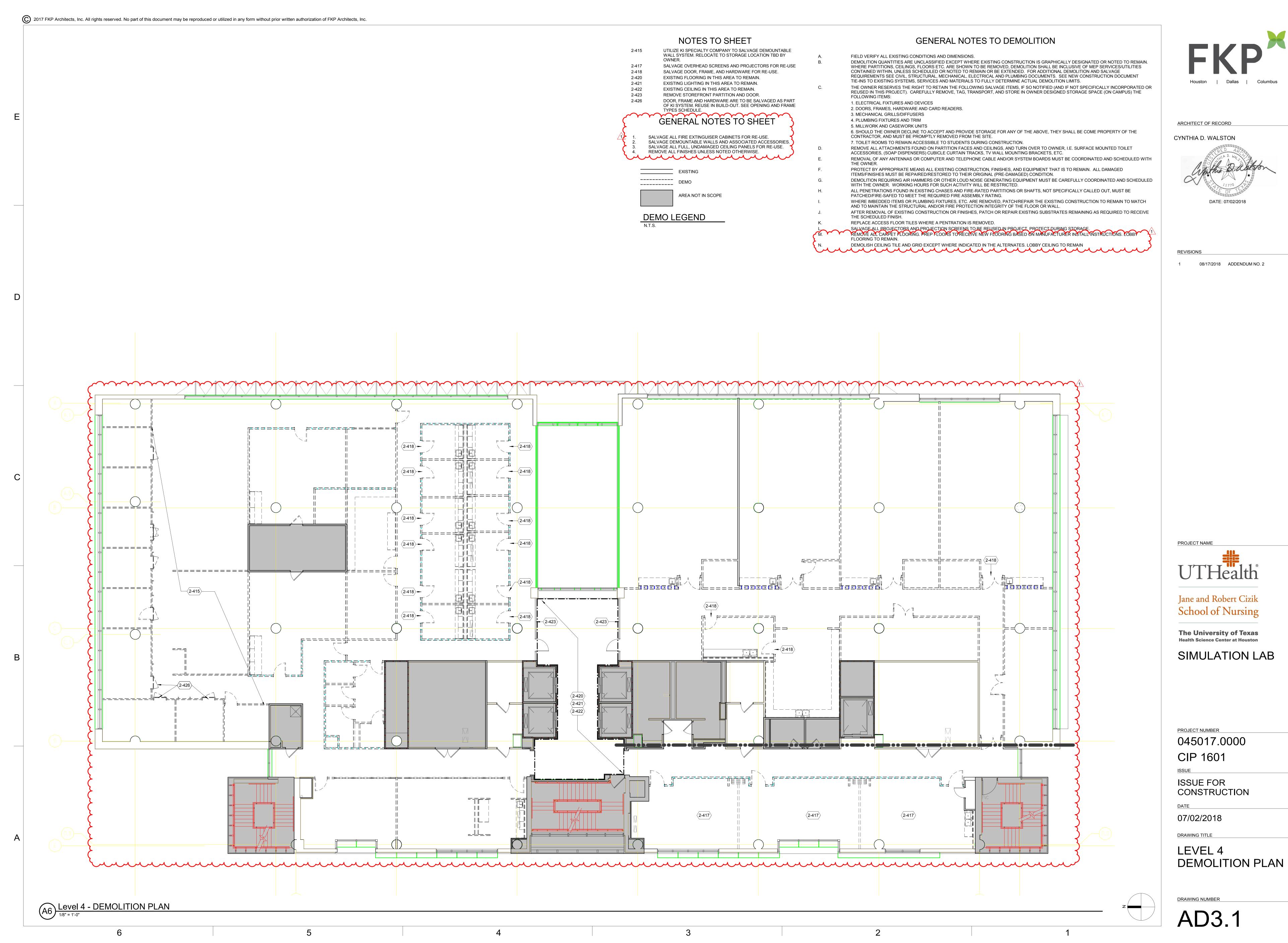
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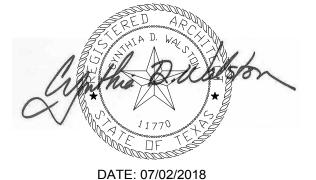
TYPICAL PARTITION TYPES

DRAWING NUMBER

A11.







| | | COL | DE TO FINISHES - SOLID S | URFACE | | | |
|----------------|-------|---------------------------|--------------------------|-----------|-------------|-----------------|-------|
| CATEGORY | CODE | TYPE | MANUFACTURER | THICKNESS | COLOR | EDGE | NOTES |
| SOLID SURFACE | SSM-1 | SOLID SURFACE MATERIAL | STARON | 1/2" | PEARL SP011 | DOUBLE EASED | |
| Grand total: 1 | | | | | | | |

| | | CODE TO FINI | SHES - PLASTIC LAMINA | TE | | |
|------------------|------|------------------|-----------------------|--------------|-----------|-------------------------|
| CATEGORY | CODE | TYPE | MANUFACTURER | COLOR | FINISH | NOTES |
| | | | | | | |
| PLASTIC LAMINATE | PL-1 | PLASTIC LAMINATE | FORMICA | NATURAL ASH | WOODBRUSH | 1 |
| PLASTIC LAMINATE | PL-2 | PLASTIC LAMINATE | FORMICA | PALOMA POLAR | MATTE | CONTROL ROOM COUNTER |

| | | | | | | COUNTI | ER | | | |
|----------------|------|-------------|--------------|-------------------|-------------|-----------|----------|--------|------|-------|
| Grand total: 2 | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | OODE TO FINI | | | | | | |
| | | | | CODE TO FINI | SHES - BASE | | | | | |
| CATEGORY | CODE | TYPE | MANUFACTURER | PATTERN / STYLE | WIDTH | THICKNESS | COLOR | HEIGHT | EDGE | NOTES |
| | | | | | | | | | | |
| BASE | RB-1 | RUBBER BASE | JOHNSONITE | TRADITIONAL DC-XX | CONTINUOUS | | CHARCOAL | 6" | COVE | |

| CATEGORY | CODE | TYPE | MANUFACTURER | PATTERN / STYLE | THICKNESS | COLOR | SIZE | NOTES |
|----------|-------|------------------|----------------|----------------------------|-----------|----------------|--|---|
| FLOOR | CPT-1 | CARPET TILE | TANDUS-CENTIVA | THIN LINES | | EVENING SHADOW | 24"X24" | VERICAL ASHLAR INSTALL; SEE FLOOR PATTERN PL |
| O-O-O-O | ~~~~ | | | | \ | | | FORLACATION |
| FLOOR | FT-1 | FLOOR TRANSITION | JOHNSONITE | CCA-20 | Y | CHARCOAL | * * * * * * * * * * * * * * * * * * * | |
| FLOOR | FT-2 | FLOOR TRANSITION | JOHNSONITE | CCC-20-A | | CHARCOAL | | |
| FLOOR | RT-1A | LVT TILE | SELECTECH | FREESTYLE BIOLOCK | | CUSTOM COLOR | 24"X24" | ADD-ALT. SEE FLOOR PATTERN PLAN BASE PRODUCTION |
| FLOOR | RT-2A | LVT TILE | SELECTECH | FREESTYLE BIOLOCK | | CUSTOM COLOR | 24"X24" | ADD-ALT. SEE FLOOR PATTERN PLAN BASE PRODUC FOR LOCATION |
| FLOOR | RT-3A | LVT TILE | SELECTECH | FREESTYLE BIOLOCK | | CUSTOM COLOR | 24"X24" | ADD-ALT. SEE FLOOR PATTERN PLAN BASE PRODUCTION |
| FLOOR | RT-4A | LVT TILE | SELECTECH | FREESTYLE BIOLOCK | | CUSTOM COLOR | 24"X24" | ADD-ALT. SEE FLOOR PATTERN PLAN BASE PRODUC FOR LOCATION |
| FLOOR | RT-5A | LVT TILE | SELECTECH | FREESTYLE BIOLOCK | | CUSTOM COLOR | 24"X24" | ADD-ALT. SEE FLOOR PATTERN PLAN BASE PRODUC FOR LOCATION |
| FLOOR | RT-6A | LVT TILE | SELECTECH | FREESTYLE BIOLOCK | | CUSTOM COLOR | 24"X24" | ADD-ALT. SEE FLOOR PATTERN PLAN BASE PRODUC FOR LOCATION |
| FLOOR | RT-1 | RUBBER TILE | JOHNSONITE | SIDELOCK CONFIGURATIONS | 1/4" | CUSTOM COLOR | 24"X24" | SEE FLOOR PATTERN PLAN FOR LOCATION |
| FLOOR | RI-2 | RUBBER TILE | JOHNSONITE | SIDELOCK CONFIGURATIONS | 1/4 | CUSTOM COLOR | 24"X24" | SEE FLOOR PATTERN PLAN FOR LOCATION |
| FLOOR | RT-3 | RUBBER TILE | JOHNSONITE | SIDELOCK CONFIGURATIONS | 1/4" | CUSTOM COLOR | 24"X24" | SEE FLOOR PATTERN PLAN FOR LOCATION |
| FLOOR | RT-4 | RUBBER TILE | JOHNSONITE | SIDELOCK CONFIGURATIONS | 1/4" | CUSTOM COLOR | 24"X24" | SEE FLOOR PATTERN PLAN FOR LOCATION |
| FLOOR | RT-5 | RUBBER TILE | JOHNSONITE | SIDELOCK CONFIGURATIONS | 1/4" | CUSTOM COLOR | 24"X24" | SEE FLOOR PATTERN PLAN FOR LOCATION |
| FLOOR | RT-6 | RUBBER TILE | JOHNSONITE | SIDELOCK CONFIGURATIONS | 1/4" | CUSTOM COLOR | 24"X24" | SEE FLOOR PATTERN PLAN FOR LOCATION |

| | | | CODE TO | O FINISHES - CEILING | | | | | |
|----------|-------|-------------------|------------------|----------------------|------------------------|--------|--------|-------|----------------------|
| CATEGORY | CODE | TYPE | MANUFACTURER | PATTERN / STYLE | COLOR | EDGE | FINISH | SIZE | NOTES |
| CEILING | ACT-1 | ACOUSTICAL CEILIN | IG ROCKFON | ALASKA | WHITE | SQUARE | SMOOTH | 2'X2' | |
| CEILING | PTF-4 | PAINT/GYP | SHERWIN WILLIAMS | | OVERT GREEN SW6718 | | FLAT | | SEE RCP FOR LOCATION |
| CEILING | PTF-9 | PAINT/GYP | SHERWIN WILLIAMS | | ONLINE SW7072 | | FLAT | | SEE RCP FOR LOCATION |
| CEILING | PTF-1 | PAINT/GYP | SHERWIN WILLIAMS | | RESERVED WHITE SW 7056 | | FLAT | | SEE RCP FOR LOCATION |

| CATEGORY | CODE | TYPE | MANUFACTURER | PATTERN / STYLE | WIDTH | THICKNESS | COLOR | SIZE | HEIGHT | NOTES |
|-----------------|-------|--|--------------|---------------------------------------|-------|-----------|------------------------|-----------|-----------|--|
| WALL PROTECTION | AP-1 | ACRYLIC PANEL | ALTRO | WHITEROCK CHAMELEON | 4' | 2.5MM | NIGHTFALL | | 10' | COLOR MATCH SEAR WELD AT ALL CORNERS |
| VALL PROTECTION | AP-2 | ACRYLIC PANEL | ALTRO | WHITEROCK CHAMELEON | | 2.5MM | MINT | | | HOME HEALTH BACKSPLASH |
| VALL PROTECTION | BR-1 | BUMPER RAIL | INPRO | 1400 BUMPER RAIL | | | GRAYSTONE | | PER ELEV. | |
| VALL PROTECTION | CG-1 | CORNER GUARD | ACROVYN | 3.5" | | 16GA. | CO8 STAINLESS STEEL | | 6' | |
| WALL PROTECTION | EC-1 | END CAP | ACROVYN | | | | STAINLESS STEEL | | 6' | |
| VALL PROTECTION | RSG-1 | RIGID SHEET WALL | INPRO | | | .040" | GRAYSTONE | | 8' | |
| WALL PROTECTION | RSG-2 | PROTECTION | ACROVYN | BY DESIGN | | .060" | ***** | PER ELEV. | ~~~ | IMAGE TO BE SELECTED BY OWNER |
| VALL PROTECTION | RSG-3 | | ACROVYN | BY DESIGN | | .060" | | PER ELEV. | | IMAGE TO BE SELECTED BY |
| /ALL PROTECTION | WP-1 | COMBINATION OF BUMPER AND CRASH RAIL | INPRO INPRO | 1400 BUMPER RAIL & 1400 CRASH RAIL | | ······ | GRAYSTONE | | | OWNER SEE FINISH PLANS FOR LOCATION |

| | | | | CODE TO FI | NISHES - SPE | CIALTY | | | | | |
|-----------|-------|---------------------|--------------------------|-----------------|--------------|-------------------|--------------------|-----------------|-------------|-----------|---|
| CATEGORY | CODE | TYPE | MANUFACTURER | PATTERN / STYLE | THICKNESS | COLOR | FINISH | SIZE | HEIGHT | BACKING | NOTES |
| SPECIALTY | CCT-1 | CUBICLE CURTAIN | CONSTRUCTION SPECIALTIES | | \sim | ANODIZED ALUMINUM | \sim | mm m | ~~~ | \sim | SURFACE MOUNTED |
| SPECIALTY | GF-1 | TRACK GLASS FILM | mmm | 6062 | mm | mm | m | mm | mm | سس | FILM TO MATCH EXISTING KI-137 |
| SPECIALTY | GP-1 | GLASS PANEL | CLARUS | FROSTED | 1/4" | TBD | TEMPERED | | | OPACIFIED | ELEVATOR LOBBY- REVEAL INSET (ADD-ALT) |
| SPECIALTY | GP-2 | GLASS PANEL | CLARUS | | 1/4" | CLEAR TRANSPARENT | TEMPERED | 8'-6" W X 3' H | 7 | FROSTED | TEACHING STATION |
| SPECIALTY | GP-3 | GLASS PANEL | CLARUS | FLOAT | 1/2" | | TEMPERED | 3'-3"' W X 8' H | 3 | | DIGITALLY PRINTED GLASS WITH CENTER JOINT AND ART TO BE PROVIDED BY OWNER |
| SPECIALTY | GP-4 | GLASS PANEL | CLARUS | DEPTH | 1/4" | PURE WHITE | TEMPERED | 10' W X 4' H | 1 | | DEBRIEF MARKERBOARD ON |
| SPECIALTY | | GLASS PANEL | CLARUS | DEPTH C | 1/4" | PURE WHITE | TEMPERED | 7' W X 4' H | | ~~~ | STAND OFFS DEBRIEF MARKERBOARD ON |
| | سستس | M M M M | | | ر سر سر تثل | | | | لہ سہ سا | | STANDOFES A A A |
| SPECIALTY | MT-1 | METAL TRIM | | | 1/2" | | STAINLESS STEEL | | FULL HEIGHT | | PL-1 CORNER TRIM |
| SPECIALTY | PC-1 | PRIVACY CURTAIN | MOMENTUM | BLITZ | | PRISMA | | | | | 24" WHITE MESH TOP |

| | | | CODE TO | FINISHES - WALL | | | |
|----------|-------|---------------|------------------|-----------------|---------------------------|----------|---|
| CATEGORY | CODE | TYPE | MANUFACTURER | PATTERN / STYLE | COLOR | FINISH | NOTES |
| | | | | | | | |
| WALL | PT-1 | PAINT | SHERWIN WILLIAMS | | RESERVED WHITE SW 7056 | EGGSHELL | |
| WALL | PT-2 | PAINT | SHERWIN WILLIAMS | | LAKESHORE SW6494 | EGGSHELL | |
| WALL | PT-3 | PAINT | SHERWIN WILLIAMS | | OCEANSIDE SW6496 | EGGSHELL | |
| WALL | PT-4 | PAINT | SHERWIN WILLIAMS | | OVERT GREEN SW6718 | EGGSHELL | |
| WALL | PT-5 | PAINT | SHERWIN WILLIAMS | | GECKO SW6719 | EGGSHELL | |
| WALL | PT-6 | PAINT | SHERWIN WILLIAMS | | FORWARD FUCHSIA SW6842 | EGGSHELL | |
| WALL | PT-7 | PAINT | SHERWIN WILLIAMS | | DEWBERRY SW6552 | EGGSHELL | |
| WALL | PT-8 | PAINT | SHERWIN WILLIAMS | | HABANERO CHILE SW7589 | EGGSHELL | |
| WALL | PT-9 | PAINT | SHERWIN WILLIAMS | | ONLINE SW7072 | EGGSHELL | |
| WALL | PT-10 | PAINT | SHERWIN WILLIAMS | | RESERVED WHITE SW 7056 | EPOXY | HOME HEALTH TOILET |
| WALL | WC-1 | WALL COVERING | KNOLL | CIRCUIT | COIL | | TACKABLE WALL IN EXISTING NICHE IN ELEVATOR |
| WALL | WPN-1 | WALL PANEL | 3FORM | PROFILE BURST | CRYSTAL WHITE | Y Y Y | Z-CLIP MOUNT; SEE FINISH PLANS FOR LOCATION |
| | | | | | | | |





CONSTRUCTION DECLARENDUM NO. 1
2 08/17/2018 ADDENDUM NO. 2
This document represents the conclusion of the departmental planning for the above indicated design phase of services and is approved as follows:

| Date | As Shown | As Noted |
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| | | |
| | Date | Date As Shown |

PROJECT NAME



School of Nursing

The University of Texas
Health Science Center at Houston

Jane and Robert Cizik

SIMULATION LAB

PROJECT NUMBER

045017.0000

CIP 1601

ISSUE FOR

CONSTRUCTION

07/02/2018

01,702,2010

DRAWING TITLE

CODE TO FINISHES

DRAWING NUMBER

GENERAL NOTES TO FINISHES

1/8" = 1'-0"

INDICATED ON THE FLOOR PLAN

INFORMATION

NO FINISH ON EXISTING EXPOSED CONCRETE COLUMNS, TYP.
 STAINLESS STEEL CORNER GUARD AT ALL EXPOSED CORNERS

3. CRASH RAIL AND BUMPER RAIL TO BE LOCATED ON ALL STANDARDIZED PATIENT ROOM, SKILLS & TASKS ROOM AND PATIENT FLEX ROOM WALLS

5. ALL PAINT TO HAVE EGGSHELL FINISH UNLESS NOTED OTHERWISE

4. .040" RIGID SHEET GOOD TO BE PLACED ON ALL WALLS OF STORAGE ROOMS

6. ALL FLOOR MATERIAL CHANGES ARE TO OCCUR AT THE CENTERLINE OF THE CLOSED DOOR. AT TRANSITIONS WHERE THERE IS NO DOOR, INSTALL AS

8. SLIM PROFILE RUBBER TRANSITION STRIPS, UNLESS NOTED OTHERWISE
9. ALL HOLLOW METAL DOOR FRAMES PAINT PT-9, UNLESS NOTED OTHERWISE
10. REFER TO FLOOR PATTERN PLAN FOR "VARIES" FOR FINISH APPLICATION

7. ALL CARPET AND RUBBER TILE TO BE DIRECT GLUE, UNLESS NOTED OTHERWISE

13. ALL HOLLOW METAL DOORS TO BE PAINTED PT-9, UNLESS NOTED OTHERWISE

11. ALL PAINTED FINISHES TO TERMINATE AT INSIDE CORNER, UNLESS NOTED OTHERWISE 12. ALL EXISTING HOLLOW METAL DOORS TO BE PAINTED PT-9, UNLESS NOTED OTHERWISE

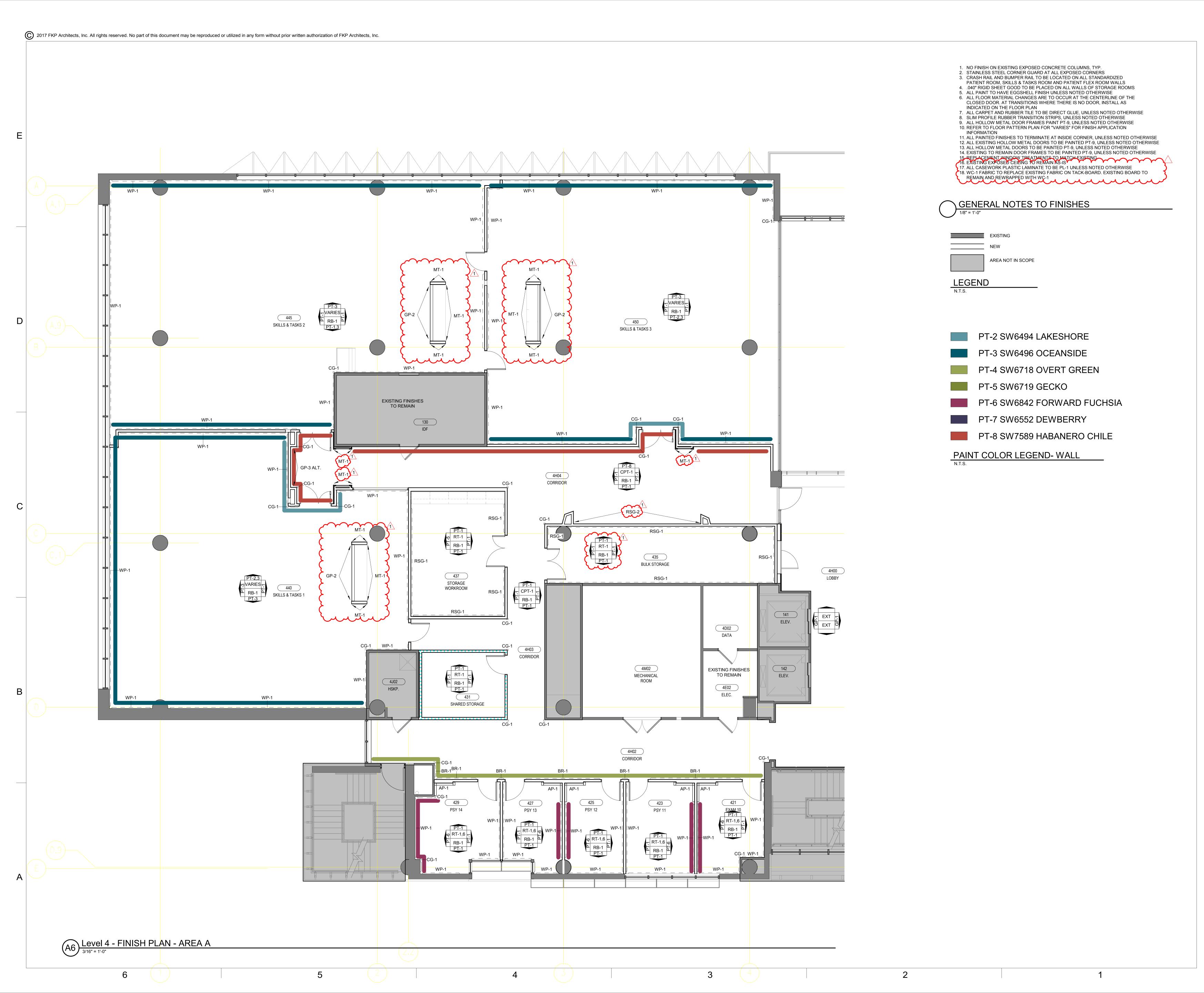
14. EXISTING TO REMAIN DOOR FRAMES TO BE PAINTED PT-9, UNLESS NOTED OTHERWISE

15. REPLACEMENT WINDOW TREATMENTS TO MATCH EXISTING
16. EXISTING EXPOSED CEILING TO REMAIN AS-IS
17. ALL CASEWORK PLASTIC LAMINATE TO BE PL-1 UNLESS NOTED OTHERWISE
18. WC-1 FABRIC TO REPLACE EXISTING FABRIC ON TACK-BOARD. EXISTING BOARD TO

REMAIN AND REWRAPPED WITH WC-1

5

2





ARCHITECT NAME



DEPARTMENT REVIEW

CONSTRUCTOR TO CONTRACT OF THE CONTRACT OF THE

This document represents the conclusion of the departmental planning for the above indicated design phase of services and is approved as follows:

PROJECT NAME



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The University of Texas
Health Science Center at Houston

SIMULATION LAB

PROJECT NUMBER

045017.0000

CIP 1601

ISSUE FOR

CONSTRUCTION

07/02/2018

DRAWING TITLE

LEVEL 4 FINISH PLAN - AREA A

DRAWING NUMBER

IA3.1A







DEPARTMENT REVIEW

is approved as follows:

CONSTRUCTION NO. 2

This document represents the conclusion of the departmental planning for the above indicated design phase of services and

| ept. Rep. | Date | As Shown | As Noted |
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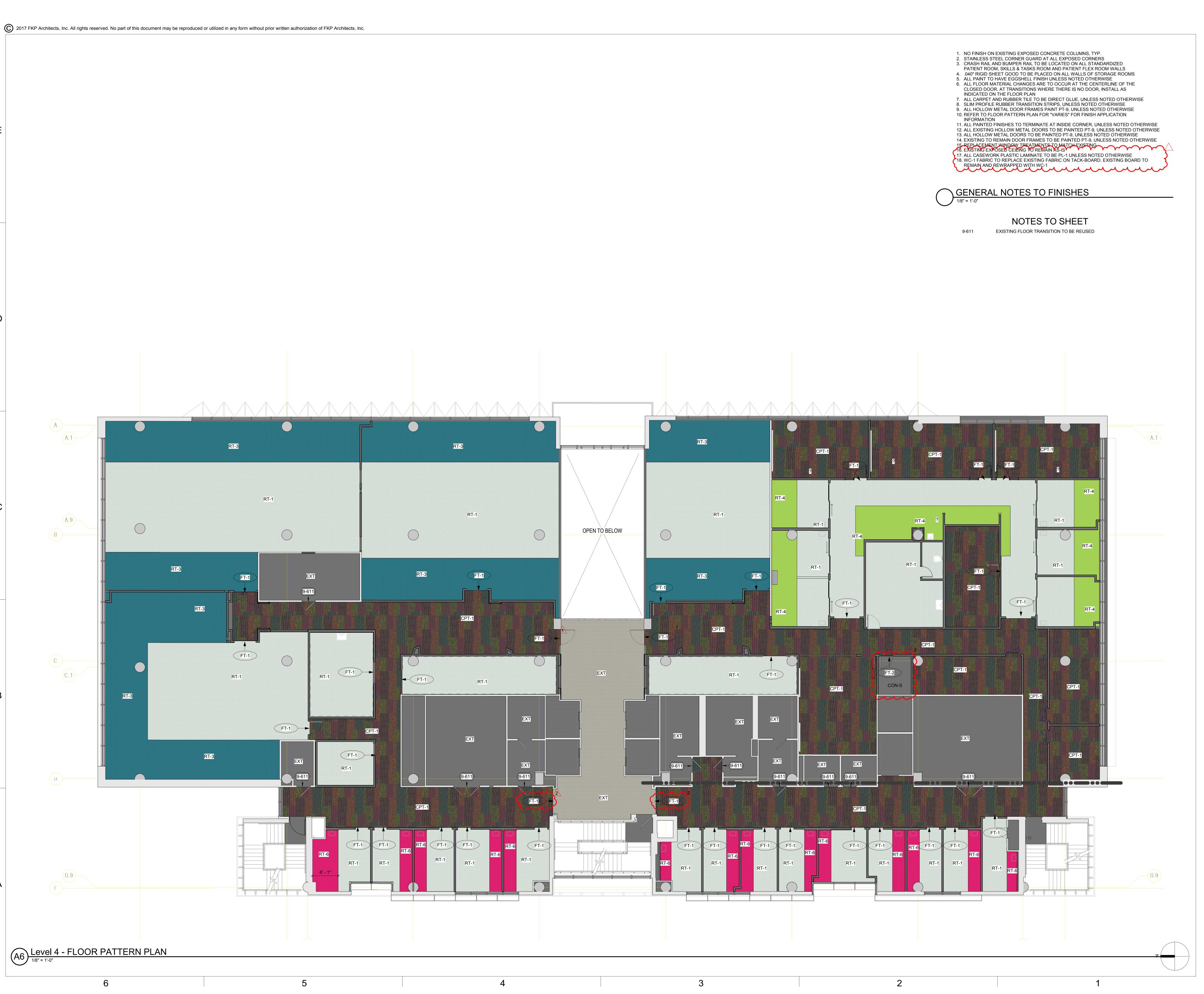
07/02/2018

DRAWING TITLE

LEVEL 4 FINISH PLAN - AREA B

DRAWING NUMBER

IA3.1B

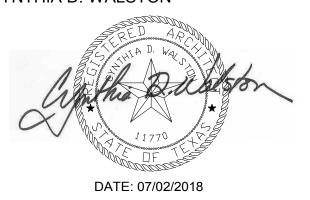


FKP

Houston L. Pollog L. Columbus

ARCHITECT OF RECORD

CYNTHIA D. WALSTON



REVISIONS

1 07/24/2018 ADDENDUM NO. 1 2 08/17/2018 ADDENDUM NO. 2

PROJECT NAME



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The University of Texas

Health Science Center at Houston

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DATE

07/02/2018

DRAWING TITLE

LEVEL 4 FLOOR PATTERN PLAN

DRAWING NUMBER

IA5.1

| | | | | SC | HEDULE | - DIFFUSER & GRIL | LE | |
|------|-----------|-----------|--------|--------|---------|---------------------------------|----------------------|---|
| MARK | CFM RANGE | NECK SIZE | SUPPLY | RETURN | EXHAUST | TYPE | PATTERN | MANUFACTURER & MODEL NUMBER |
| А | 30-80 | NA | Х | | | 8" ROUND FLOOR DISPLACEMENT | STAR | PRICE RFDD WITH DISTRIBUTOR BASKET AND DAMPER |
| В | 30-80 | NA | X | | | 10" ROUND FLOOR DISPLACEMENT | STAR | PRICE RFDD WITH DISTRIBUTOR BASKET AND DAMPER |
| С | 416-600 | 12" X 12" | | Х | Х | 24" X 24" PERF. FACE | PERF | PRICE APDDR ALUMINUM CONSTRUCTION |
| D | 601-815 | 22" X 22" | | Х | Х | 24" X 24" PERF. FACE | PERF | PRICE APDDR ALUMINUM CONSTRUCTION |
| E | RE: DWGS | RE: DWGS | Х | | | SIDEWALL GRILLE | DOUBLE DEFLECTION | PRICE 620 FS, 3/4" BLADE SPACING ALUMINUM FACE AND FRAME |
| F | RE: DWGS | RE: DWGS | | Х | Х | SIDEWALL GRILLE | SINGLE DEFLECTION | PRICE 630 FL ALUMINUM FACE AND FRAME |
| G | 0-130 | 6" | | | Х | 12" X 12" PERF. FACE | PERF | PRICE APDDR ALUMINUM CONSTRUCTION |

AIR DEVICE NOMENCLATURE

— DIFFUSER MARK

DIFFUSER & GRILLE SCHEDULE NOTES

MAX NC-30 FOR ALL AIR DEVICES. NC SHALL BE CALCULATED AS PER AHRI 885-2008 ASSUMING LAY-IN ACOUSTICAL TILE.

| | | SCHEDULE - FAN COIL UNIT | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|-----------|--------------------------------|--------------|-----------|---------|-----------|------------|-------|----------|---------|-------|-------|-------|----------|-----------|--------|------|-----------|--------|--------|-------------|-------------|---------|------|-------------|--------------------------------------|
| | | FAN & MOTOR COOLING WATER COIL | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | MIN. | | | | | | | | | | |
| | | | | | | EXT. S.P. | TOTAL S.P. | MOTOR | | | | | | | MIN. SENS | TOTAL | MAX. | ENT. WTR. | | | | | | | MAX FLUID | |
| MARK | TYPE | DRIVI | E The SERVES | UNIT SIZE | FAN CFM | IN. WG | IN. WG | HP | FAN QTY. | FAN RPM | VOLTS | PHASE | HERTZ | COIL CFM | BTUH | BTUH | ROWS | GPM | EWT °F | LWT °F | EAT DB °F E | AT WB °F LA | T DB °F | °F | PD. ft. H20 | REMARKS |
| FCU-04-0 | 1 VERTICA | AL DIREC | T ROOM #430 | 12 | 1,460 | 0.05 | 0.45 | 1/2 | 1 | 1100 | 208 | 1 | 60 | 1460 | 31,040 | 38,930 | 4 | 5.5 | 42 | 56 | 78 | 65 | 58.7 | 56.3 | 5.00 | BASIS OF DESIGN ENVIRO-TEC MODEL CDV |
| FCU-04-0 | 2 VERTICA | AL DIREC | T ROOM #4M01 | 20 | 2,235 | 0.05 | 0.40 | 1/4 | 2 | 1088 | 208 | 1 | 60 | 2235 | 47,390 | 60,160 | 4 | 8.5 | 42 | 56 | 75 | 63 | 55.8 | 53.8 | 7.00 | BASIS OF DESIGN ENVIRO-TEC MODEL CDV |

FAN COIL UNIT GENERAL NOTES

A. FURNISH AND INSTALL WITHOUT EXCEPTION MINIMUM HORSEPOWER (SIZE) AS SCHEDULED.

FAN COIL UNIT SCHEDULE NOTES

1. UNIT SHALL HAVE A SINGLE POINT POWER CONNECTION. SEPARATE BUT ADJACENT COMBINATION STARTER/DISCONNECT SWITCH TO BE PROVIDED BY DIVISION 26.

| | | | | | | | | | | SC | HEDUI | E - AHU | (EXISTIN | 1G) | | | | | | | | | | |
|-----------|--------------|-----------------------|------------------|--------------|-------------------|------------------|-------|----|------------|------------|-------------|------------------|----------------|------------------|-----------|-----------|-------------|-------------|----------------|--------------|--------------|------------------|----------------|---------|
| | | | | | SUPPL | Y AIR | | | | | | | | COOL | NG CO | IL 1 | | | | | | | | |
| | | | | | | | | | | | | | | | | | MAX | | | | | | | |
| | | =\/T 0 B | TOTAL | | | | | | | = 4 4 1 | 0011 | | TOTA ! | | | | FACE | | | | | 415.55 | | |
| MARK | TOTAL CFM | EXT. S.P. IN. W.G. | 8.P. IN. W.G. | MOTOR RPM | MOTOR BHP (EA) | MOTOR HP (EA) | VOLTS | PH | H <i>7</i> | FAN RPM | COIL CFM | MIN. SENS. MBTUH | TOTAL MBTUH | ENT. WTR. GPM | EWT °F | LWT °F | VEL. FPM | EAT DB ℉ | EAT WB ºF | LAT DB °F | LAT WB °F | AIR PD (inWC) | H2O PD (ff) | REMARKS |
| SNAHU/4-1 | 10950 | 1.10 | 2.10 | 1167 | 7.4 | 7.5 | 460 | 3 | 60 | 1197 | 10950 | 148.0 | 148.0 | 13.6 | 42 | 64 | 510 | 67.0 | 58.5 | 54.6 | 53.6 | 0.52 | 30.1 | |
| SNAHU/4-2 | 10950 | 1.10 | 2.10 | 1167 | 7.4 | 7.5 | 460 | 3 | 60 | 1197 | 10950 | 148.0 | 148.0 | 13.6 | 42 | 64 | 510 | 67.0 | 58.5 | 54.6 | 53.6 | 0.52 | 30.1 | |

EXISTING AIR HANDLING UNIT GENERAL NOTES

REBALANCE EXISTING AIR HANDLING UNITS TO THE ABOVE SCHEDULE.
CONTRACTOR TO COORDINATE WITH OWNER AND TAB CONTRACTOR TO MINIMIZE DISRUPTION TO OCCUPIED SPACES.



2825 Wilcrest, Suite #350 Houston, Texas 77042 Ph. 713.780.7563 Fax.713.780.9209 Texas Registered Engineering Firm F-2113

07/24/2018 ADDENDUM NO. 1 08/17/2018 ADDENDUM NO. 2

Tx. Registration # F-2113



Jane and Robert Cizik School of Nursing

The University of Texas
Health Science Center at Houston

SIMULATION CENTER

PROJECT NUMBER

045017.0000

CIP 1601

ISSUE FOR CONSTRUCTION

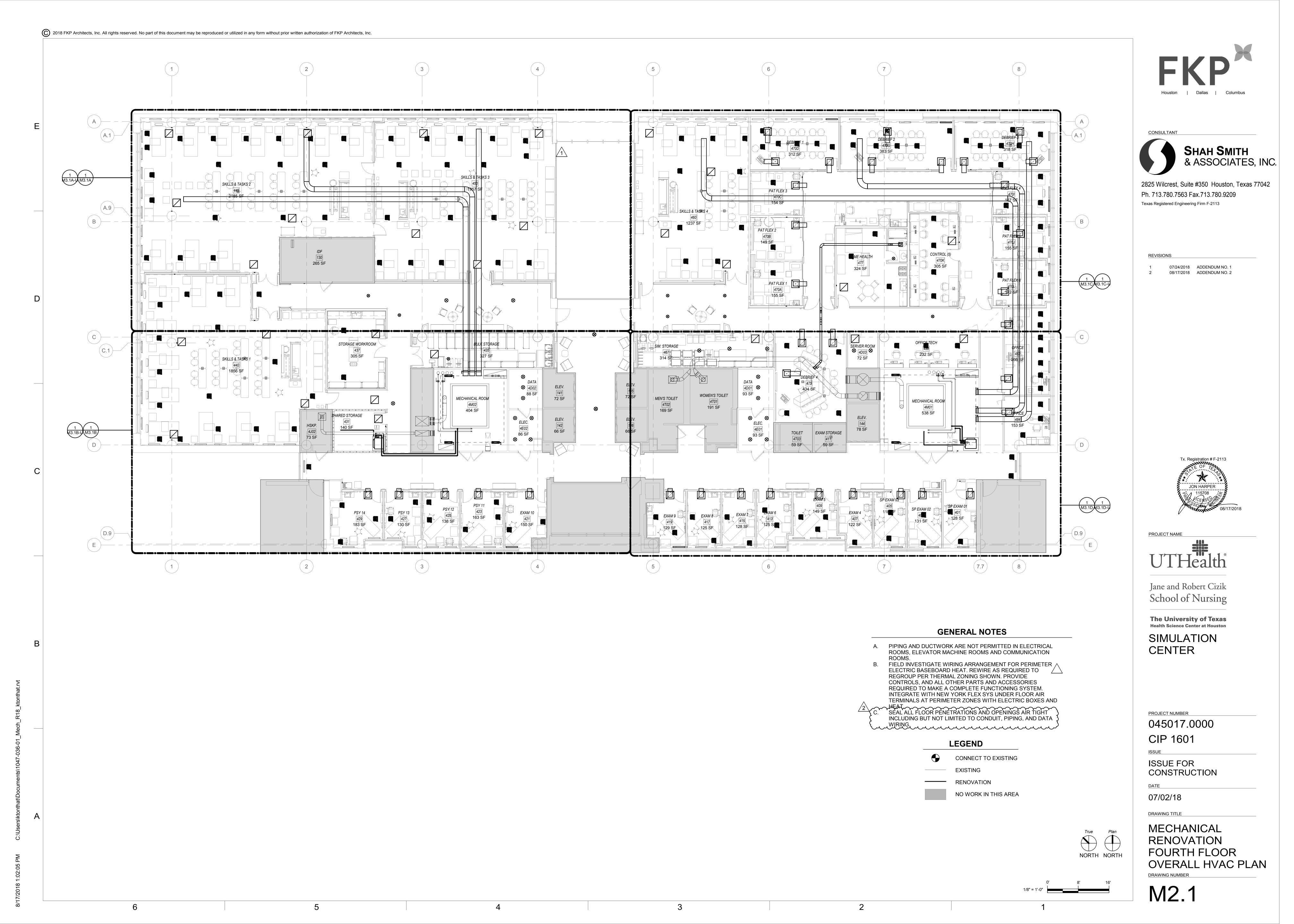
07/02/18

DRAWING TITLE

MECHANICAL SCHEDULES

DRAWING NUMBER

M0.1



| POINT SUMMARY | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|------------|------------|--------|--------|----------|----------|-------|--------------|-----------------|-----------------|------------|-----------------|-----------------|-------------|----------|-----------------|----------|-------|-----|---------------------|---------|-------|-------|---------|
| | | | OL | JTPU | Т | | | | | | | | INF | PUT | | | | | | | so | FTW | ARE | |
| | DI | GITA | L | | ANA | LOG | | | | DIGIT | AL | | | | | ANA | ALOC | 3 | | I/O | | | | |
| FAN COIL UNITS | START/STOP | OPEN/CLOSE | ON/OFF | 4-20MA | 0-10 VDC | 1-18 PSI | OTHER | AUX. CONTACT | PRESSURE SWITCH | LOW TEMP SWITCH | END SWITCH | SMOKE DET. AUX. | CUR. MON. RELAY | TEMPERATURE | PRESSURE | FLOW (CFM, GPM) | HUMIDITY | OTHER | CO2 | COMMUNICATIONS LINK | GRAPHIC | OTHER | ALARM | COMMENT |
| FAN COIL UNITS | | | | | | | | | | | | | | | | | | | | | X | | | |
| SUPPLY AIR FAN | X | | | | | | | | | | | | X | | | | | | | | | | Х | |
| COOLING COIL VALVE | | | | | X | | | | | | | | | X | | | | | | | | | | |
| SPACE TEMPERATURE (ADJUSTABLE) | | | | | | | | | | | | | | Х | | | | | | | | | | |
| FLOAT SWITCH | | | | | | | | Х | | | | | | | | | | | | | | | Х | |

GENERAL NOTE:

A. PROVIDE ALL NEW TERMINAL EQUIPMENT CONTROLLERS (TEC), WIRING, DEVICES, SENSORS, AND ACCESSORIES AND PROGRAMMING/GRAPHICS TO MAKE A COMPLETE FUNCTIONING CONTROL SYSTEM. ALL NEW MATERIALS SHALL BE OF SIMILAR QUALITY/FUNCTION TO WHAT IS INSTALLED CURRENTLY IN THIS BUILDING (JCI METASYS) AND SHALL BE COMPLETELY COMPATIBLE/INTEGRATED WITH EXISTING JCI METASYS SYSTEM. CONTRACTOR SHALL UPDATE SOFTWARE GRAPHICS TO DISPLAY ANY NEW DDC POINTS INDICATED ON THIS SHEET.

PROVIDE ALL CONTROL WIRING IN BLUE CONDUIT ROUTED EXPOSED IN MECHANICAL ROOMS. UNDERFLOOR SENSOR WIRING TO MATCH EXISING COLOR SCHEME. (TEMPERATURE SENSOR WIRING - YELLOW, DEVICE CONTROL WIRING - PURPLE).

SEQUENCE OF OPERATION FAN COIL UNITS.

- EACH FCU SHALL CONSIST OF A SUPPLY FAN, MERV 8 30% PRE-FILTER, COOLING COIL
- THE UNIT SHALL BE STARTED AND STOPPED THROUGH THE EXISTING JCI METASYS DDC. WHEN THE UNIT IS ENERGIZED, A ROOM TEMPERATURE SENSOR SHALL, THROUGH THE TEC, MODULATE THE NORMALLY OPEN CHW VALVES IN SEQUENCE TO MAINTAIN ROOM TEMPERATURE SETPOINT (ADJUSTABLE).
- A CURRENT SENSOR WILL BE UTILIZED TO VERIFY PROOF OF RUN.
- 4. UNOCCUPIED MODE. DURING UNOCCUPIED MODE, THE UNIT SHALL CYCLE ON/OFF TO MAINTAIN THE UNOCCUPIED MODE SETPOINT. EXCEPT THE FAN COIL UNIT IN THE MECHANICAL ROOM WILL BE CYCLE ON/OFF BASED ON AHU HOURS OF OPERATION. (70F SUMMER/60F WINTER - MECH ROOMS, NO OCCUPIED MODE)
- 5. FLOAT SWITCH IN SECONDARY DRAIN PAN SHALL BE HARDWIRED TO SHUT DOWN FAN, CLOSE VALVES AND SEND AN ALARM TO DDC ONCE

CONTROL SCHEMATIC - VERTICAL FCU

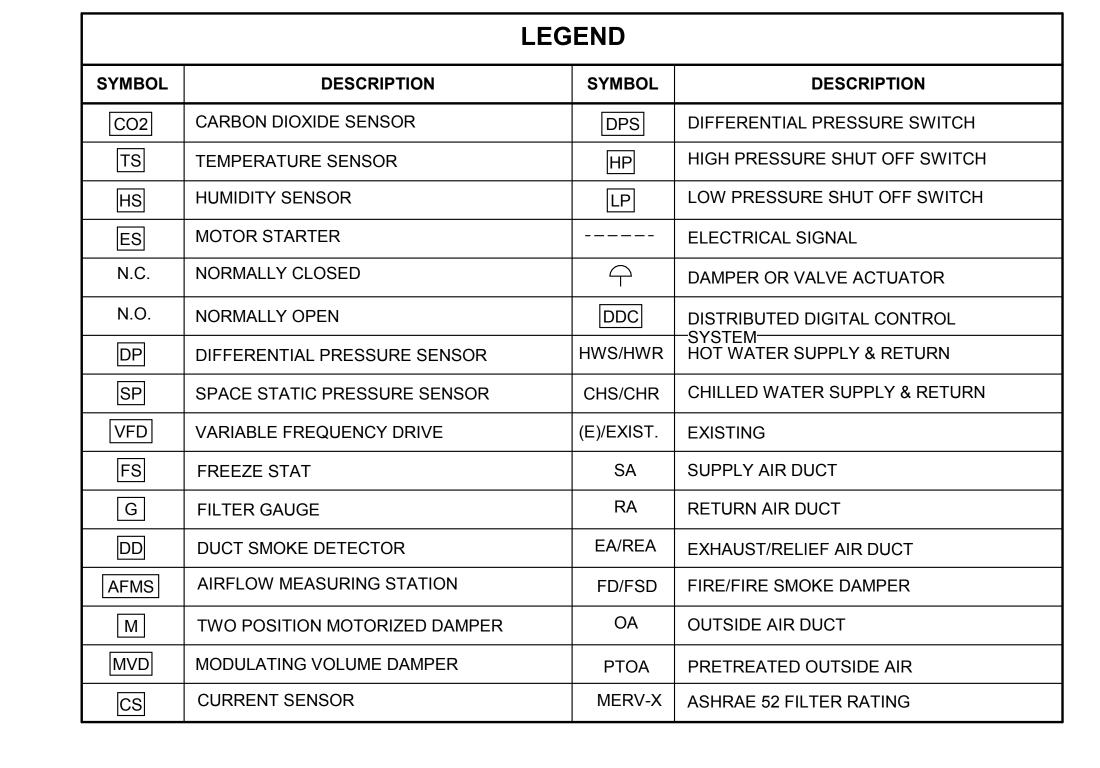
| POINT SUMMARY | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------|------------|--------|--------|----------|----------|-------|--------------|-----------------|-----------------|------------|-----------------|-----------------|-------------|----------|-----------------|----------|-------|-----|---------------------|---------|-------|-------|---------|
| | | | Ol | JTPU | ΙΤ | | | | | | | | INF | PUT | | | | | | | | CT\A/ | ۸۵۲ | |
| | D | IGIT/ | ΑL | | ANA | LOG | | | | DIGI | TAL | | | | | ANA | ALOG | ; | | I/O | 30 | FTW | ARE | |
| SCHOOL OF NURSING | START/STOP | OPEN/CLOSE | ON/OFF | 4-20MA | 0-10 VDC | 1-18 PSI | ОТНЕК | AUX. CONTACT | PRESSURE SWITCH | LOW TEMP SWITCH | END SWITCH | SMOKE DET. AUX. | CUR. MON. RELAY | TEMPERATURE | PRESSURE | FLOW (CFM, GPM) | HUMIDITY | ОТНЕК | CO2 | COMMUNICATIONS LINK | GRAPHIC | OTHER | ALARM | COMMENT |
| PLUMBING | | | | | | | | | | | X | | | | | | | | | | Х | | | |
| LAB COMPRESSOR | | | | | | | | | | | | | | | | | | | | | Х | | | |
| COMPRESSOR STATUS (EACH) | | | | | | | | Х | | | | | | | | | | | | | | | | |
| COMPRESSOR FAILURE (EACH) | | | | | | | | Х | | | | | | | | | | | | | | | | |
| VACUUM PUMP | | | | | | | | | | | | | | | | | | | | | Х | | | |
| GENERAL SYSTEM FAULT ALARM | | | | | | | | Х | | | | | | | | | | | | | | | Х | |
| DOM. WATER HEATER FAILURE ALARM | | | | | | | | Х | | | | | | | | | | | | | | | X | |

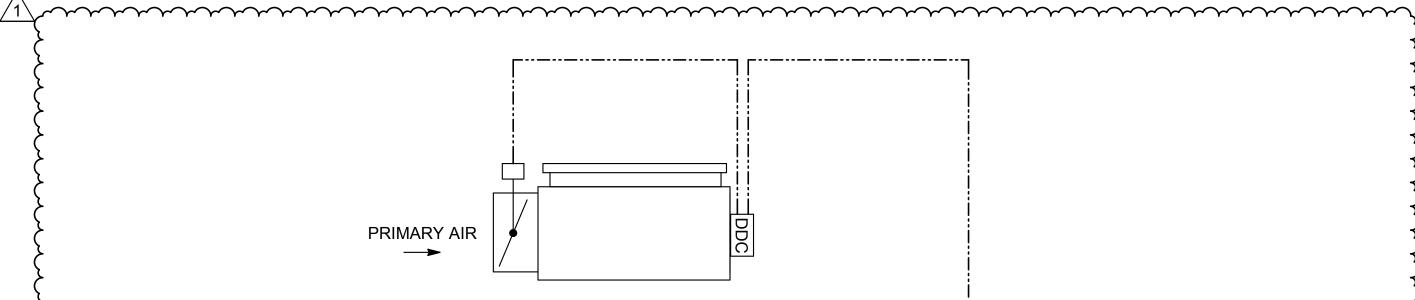
SEQUENCE OF OPERATION FAN COIL UNITS.

GENERAL

- A. ALL DDC PANELS SHALL BE CONNECTED TO STANDBY POWER SYSTEM, AND SHALL BE PROVIDED WITH UNINTERUPTABLE POWER SUPPLY (UPS) SIZED FOR 15 MINUTES OF OPERATION.
- THE SEQUENCE OF OPERATION FOR THE EQUIPMENT SHALL BE INDICATED ON THE DRAWINGS. PROVIDE ADJUSTMENTS AS NECESSARY TO SETPOINTS (STATIC PRESSURE SETPOINTS, TIME DELAY SETPOINTS, BUILDING PRESSURIZATION AND OFFSET SETPOINTS, ETC.) DURING THE COMMISSIONING PHASE AND DURING POST CONSTRUCTION ADJUSTMENTS.
- C. DOMESTIC WATER HEATERS. THIS EQUIPMENT WILL BE PROVIDED AND INSTALLED BY DIVISION 22 WITH STAND ALONE CONTROLS AND A SET OF DRY CONTACTS.

2 MISCELLANEOUS CONTROL POINTS NO SCALE





SPACE

| | | OUTPUT | | | | | | | | INPUT | | | | | | | | | | | SOFTWARE | | ARF | | |
|---------------------------------------|------------|------------|--------|--------|----------|----------|---------|--------------|-----------------|-----------------|------------|-----------------|-----------------|-------------|----------|-----------------|----------|-------|-----|---------------------|----------|-------|-------|---------|--|
| | DIGITAL | | | ANALOG | | | DIGITAL | | | | | | ANALOG | | | | | I/O | | | | | | | |
| TYPICAL VV UNDERFLOOR TERMINAL BOX | START/STOP | OPEN/CLOSE | ON/OFF | 4-20MA | 0-10 VDC | 1-18 PSI | OTHER | AUX. CONTACT | PRESSURE SWITCH | LOW TEMP SWITCH | END SWITCH | SMOKE DET. AUX. | CUR. MON. RELAY | TEMPERATURE | PRESSURE | FLOW (CFM, GPM) | HUMIDITY | OTHER | CO2 | COMMUNICATIONS LINK | GRAPHIC | OTHER | ALARM | COMMENT | |
| VV TERMINAL UNITS | | | | | | | | | | | | | | | | | | | | | Χ | | | | |
| PRIMARY AIR DAMPER ACTUATOR | | | | | X | | | | | | | | | | | X | | | | | | | | | |
| SPACE TEMPERATURE | | | | | | | | | | | | | | Х | | | | | | | | | | | |

SEQUENCE OF OPERATION

GENERAL NOTE:

- A. REFERENCE UNDERFLOOR AIR DISTRIBUTION SPECIFICATION 23 30 00 FOR CONTROLS OPERATIONS.
- B. TERMINAL EQUIPMENT CONTROLLER (TEC) SHALL BE TIED INTO BAS FOR MONITORING AND ADJUSTING OF TEMPERATURE SET POINTS.
- PROVIDE CONTROL WIRING IN MECHANICAL ROOM IN BLUE CONDUIT. UNDERFLOOR SENSOR WIRING TO MATCH EXISINTING COLOR SCHEME (TEMPERATURE SENSOR WIRING - YELLOW, DAMPER CONTROL WIRING - PURPLE).
- D. CONTROLS CONTRACTOR SHALL PROVIDE ALL LOW VOLTAGE POWER COMPONENTS AND DISTRIBUTION REQUIRED FOR SYSTEM.

<u>UNDERFLOOR TERMINAL BOX (VV)</u>

- 1. THE VAV BOXES SHALL BE CONTROLLED BY A FACTORY MOUNTED TEC.
- 2. THE TEC SHALL MONITOR THE SPACE TEMPERATURE AND MODULATE THE AIRFLOW TO MAINTAIN SPACE TEMPERATURE SETPOINT (ADJUSTABLE).
- 3. THE VAV TERMINAL UNIT IS CONTROLLED WITHIN USER DEFINED MAXIMUM AND MINIMUM SUPPLY AIR VOLUME SETTINGS. THE CONTROLLER MONITORS THE ROOM TEMPERATURE SENSOR TO MODULATE THE SUPPLY AIR DAMPER.

CONTROL SCHEMATIC -**OUNDERFLOOR TERMINAL BOX**



CONSULTANT



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08/17/2018 ADDENDUM NO. 2

Tx. Registration # F-2113

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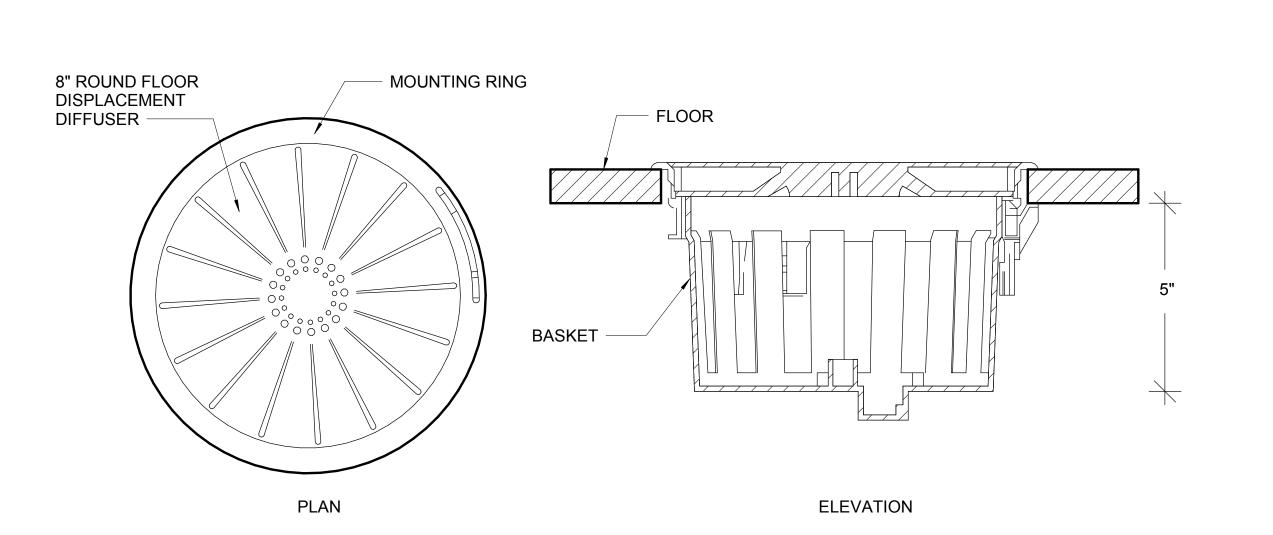
07/02/18

DRAWING TITLE

MECHANICAL CONTROL

SCHEMATICS

DRAWING NUMBER



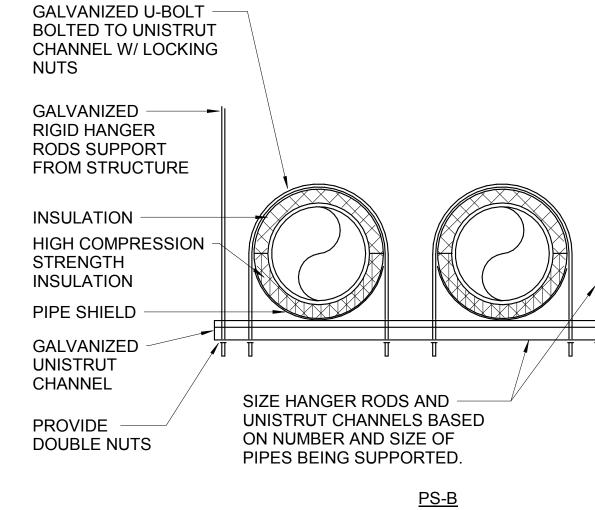
FLOOR DISPLACEMENT DIFFUSER DETAIL

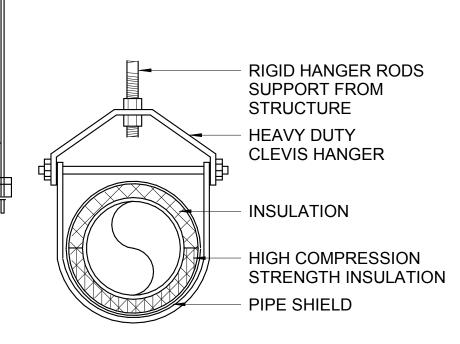
10.39"

DIAMETER

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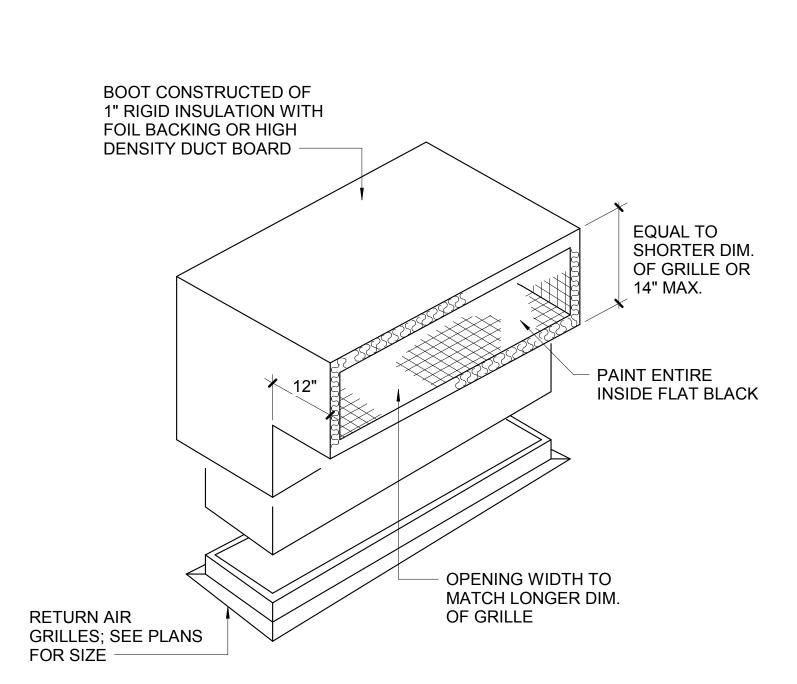
HANGER ROD SCHEDULE (CLEVIS) **ROD SIZE** PIPE SIZE PIPE SIZE **ROD SIZE** UP TO 2" 3/8" DIA. 4" thru 5" 5/8" 6" thru 14" 7/8" 2 1/2" thru 3" 1/2" DIA.





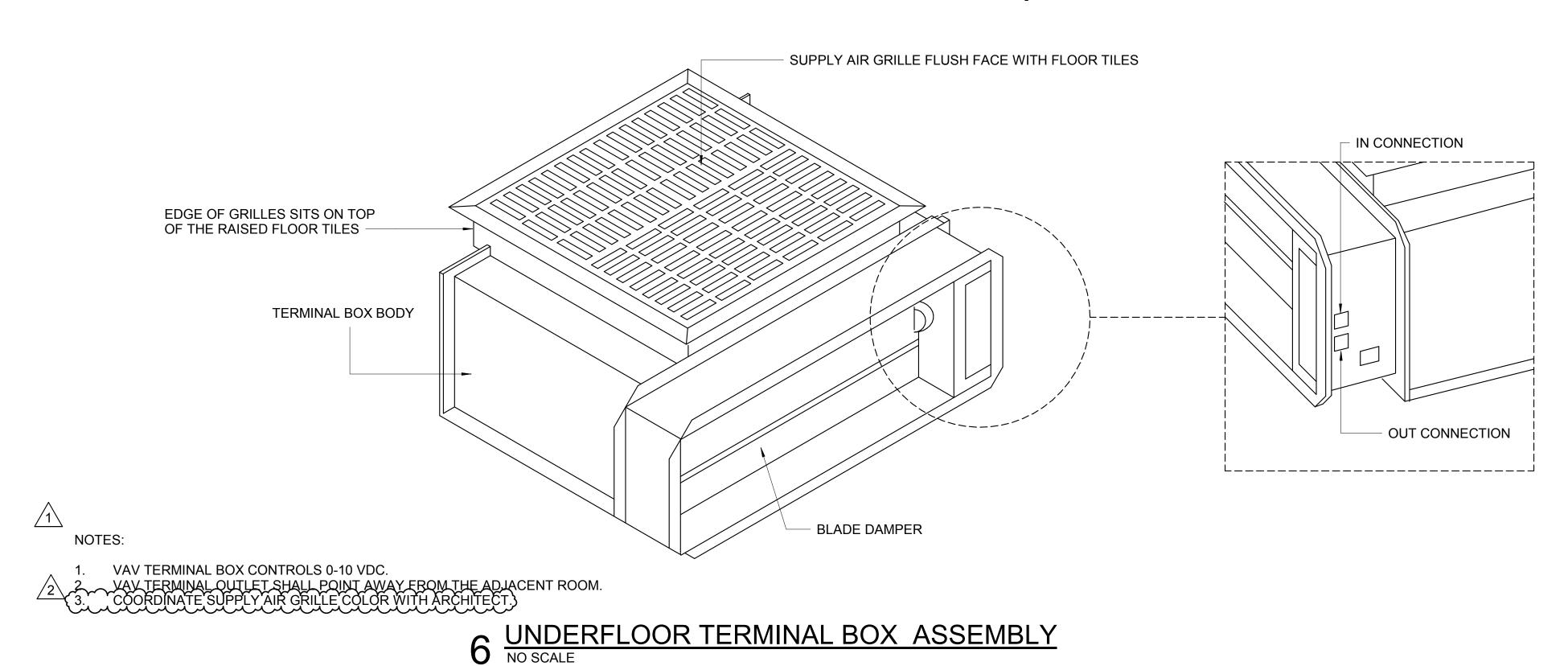
PS-A

2 TYPICAL PIPE SUPPORT DETAIL NO SCALE

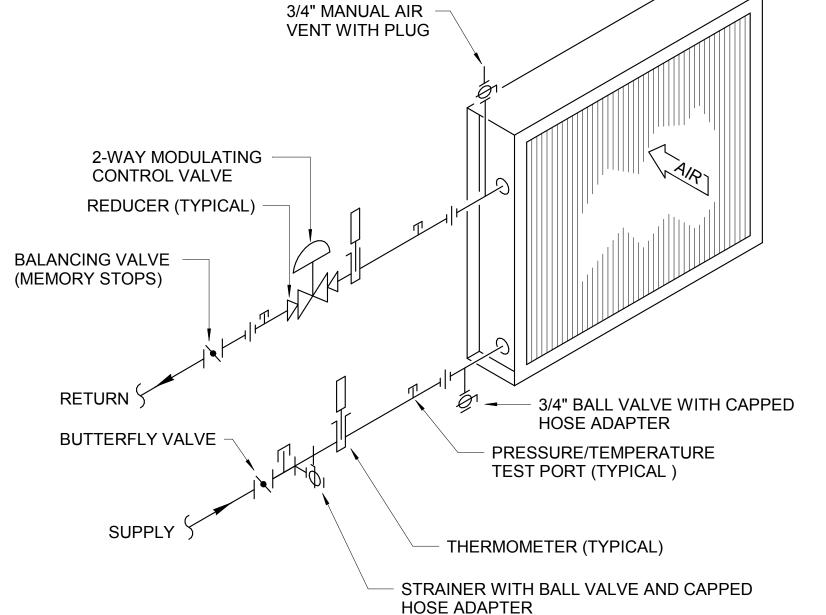


3 FLOOR DIFFUSER DETAIL NO SCALE

4 RETURN AIR GRILLE BOOT DETAIL NO SCALE



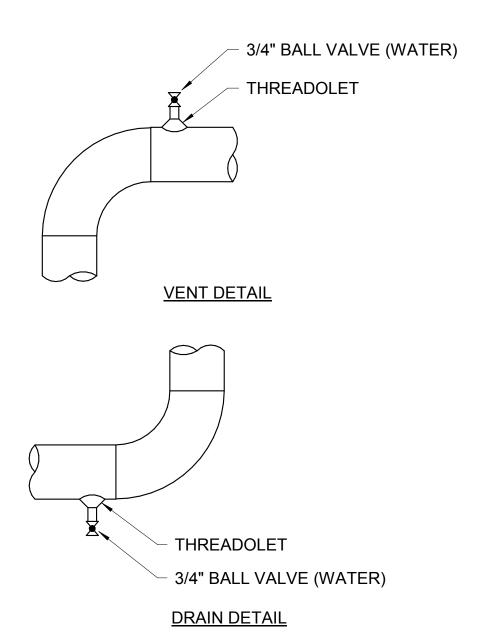
15.81" INTAKE



NOTES:

- 1. WHERE PIPE SIZE IS 2" OR SMALLER, PROVIDE BALL VALVE IN LIEU OF BUTTERFLY ISOLATION
- INSTALL UNIONS OR FLANGES IN PIPE LOCATIONS OUT OF WAY TO PERMIT COIL REMOVAL.
- FOR TERMINAL AND FAN COIL UNITS PIPING PROVIDE PRESSURE/TEMPERATURE TEST PLUGS
- ONLY. THERMOMETERS ARE NOT REQUIRED. PROVIDE MANUAL AIR VENT AT TERMINAL UNITS.
- PROVIDE REDUCERS AT TERMINAL UNIT COIL CONN. AS REQUIRED.
- CONNECT COILS IN COUNTER FLOW ARRANGEMENT.
- PROVIDE UNIONS OR FLANGES IMMEDIATELY UPSTREAM AND DOWNSTREAM OF CONTROL VALVE 3/4" BALL VALVE WITH CAPPED HOSE ADAPTOR CAN BE OMITTED IF STRAINER IS AT LOW PART OF

2-WAY CONTROL VALVE COIL CONNECTION 5 DETAIL NO SCALE



7 DRAIN AND VENT DETAIL
NO SCALE



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07/24/2018 ADDENDUM NO. 1

08/17/2018 ADDENDUM NO. 2



PROJECT NAME



Jane and Robert Cizik School of Nursing

The University of Texas **Health Science Center at Houston**

SIMULATION CENTER

PROJECT NUMBER

045017.0000

CIP 1601

ISSUE FOR CONSTRUCTION

07/02/18

DRAWING TITLE

MECHANICAL **DETAILS**

DRAWING NUMBER

M7.2

| | | LUMINAIRE SCHEDULE | | | | | |
|---------------|--|---|---------|-----------------------|----------|--------------|--|
| | TYPE MANUFACTURER AND CATALOG NUMBER | DESCRIPTION | VOLTAGE | LAMPS | MOUNTING | MAX WATTS | REMARKS |
| | LA1 LITHONIA #EPANL 2X4 6000LM 80CRI 40K MIN10 ZT MVOLT | 2X4 LINEAR LED FIXTURE, ALUMINUM HOUSING, | 120/277 | LED | RECESSED | 62 | STANDARD WITH 0-10V |
| | LSI #SFP24 LED 50 UE DIM 40 U | FLAT WHITE LENS. | | LED 4000K 80CRI | | | DIMMING DRIVER |
| | EATON, HUBBELL | | | 6000 LM | | | |
| | LA2 LITHONIA #EPANL 2X4 4000LM 80CRI 40K MIN10 ZT MVOLT | 2X4 LINEAR LED FIXTURE, ALUMINUM HOUSING, | 120/277 | LED 4000K | RECESSED | 40 | STANDARD WITH 0-10V |
| | LSI #SFP24 LED 50 UE DIM 40 U | FLAT WHITE LENS. | | 80CRI | | | DIMMING DRIVER |
| | EATON, HUBBELL | | | 4000 LM | | | |
| | LB LITHONIA #EPANL 1X4 4000LM 80CRI 40K MIN10 ZT MVOLT | 1X4 LINEAR LED FIXTURE, ALUMINUM HOUSING, | 120/277 | LED 4000K | RECESSED | 40 | STANDARD WITH 0-10V |
| | LSI #SFP14 LED 40L UE DIM 40 U | FLAT WHITE LENS. | | 80CRI | | | DIMMING DRIVER |
| | EATON, HUBBELL | | | 4000 LM | | | |
| | LC4 FINELITE #HP-4 \$\text{P} 4 B \text{840 F MVOLT FA SC C4} | 4" LINEAR DIRECT LED PENDANT, ALUMINUM | 120/277 | LED | RECESSED | 20 / 4' | STANDARD WITH 0-10V |
| | CORONET #LS4 4 40 LTG1 UNV DB W AC SD | HOUSING, FLAT WHITE LENS. | | 4000K 80CRI | | | DIMMING DRIVER. COORDINATE LENGTH WITH |
| \mathcal{L} | FLUXWERX, LUMENWERX | | ~~~ | 4000 LM | | | PLANS |
| | LC6 FINELITE #HP-4 D 6 B 840 F MVOLT FA SC C4 | 4" LINEAR DIRECT LED PENDANT, ALUMINUM | 120/277 | LED 4000K | RECESSED | | STANDARD WITH 0-10V DIMMING DRIVER. |
| | CORONET #LS4 6 40 LTG1 UNV DB W AC SD | HOUSING, FLAT WHITE LENS. | | 80CRI | | | COORDINATE LENGTH WITH |
| | FLUXWERX, LUMENWERX | | سسس | 4000 LM | | | PLANS |
| | LD USAI# 1020 B1 S 10 LRTD4 9020 M2 50 NCSM DIML2 | 4" APERTURE LED DOWN LIGHT, SELF FLANGED SEMI-SPECULAR, MATTE-DIFFUSER, CONCEALED | 120/277 | LED 4000K | RECESSED | 25 | STANDARD WITH 0-10V DIMMING DRIVER |
| | LUCIFER #F4RFFS1 WH WH 80C16A4 4Y1 AN4 | LEDS, SOLID STATE LIGHT ENGINE. | | 80CRI 1250 LM | | | DIMMING DRIVER |
| | EATON, PRESCOLITE | | | 1250 LIVI | | | |
| | LF FINELITE #12 LED ID DCO 4 4E S 840 40U60D MVOLT SC FA CI | | 120/277 | LED 4000K | RECESSED | 32 / 4' | STANDARD WITH 0-10V DIMMING DRIVER. |
| | PMC #S1200 LED DI YAC 4000K 075/075 4 WOA WHT UNV | HOUSING, FLAT WHITE LENS. | | 80CRI | | | COORDINATE LENGTH WITH |
| | FLUXWERX, LUWENWERX | | ~~~~ | 3000 LM / 4' | <u></u> | | PLANS |
| | LF6 FINELITE #12 LED ID DCO 6 4E S 840 40U60D MVOLT SC FA CI | | 120/277 | LED 4000K | RECESSED | 32 / 4' | STANDARD WITH 0-10V DIMMING DRIVER. |
| | PMC #S1200 LED DI YAC 4000K 075/075 6 WOA WHT UNV | HOUSING, FLAT WHITE LENS. | | 80CRI | | | COORDINATE LENGTH WITH |
| | FLUXWERX, LUMENWERX | | | 4500 LM / 6' | | | PLANS |
| | LG FINELITE #HP-WS 6W 6D H 840 MVOLT SW SF | 6"X6" LINEAR LED COVE, ALUMINUM HOUSING, FLAT WHITE LENS. | 120/277 | LED 4000K | RÉCESSED | 25/4 | STANDARD WITH 0-10V DIMMING DRIVER. |
| | FORUM #SRT 46PER FG 95LED40 SATX4 UNV WH D10V | WHITE LENG. | | 80CRI 2500 LM | | | COORDINATE LENGTH WITH PLANS |
| $\angle 2$ | FLUXWERX LUMENWERX | · · · · · · · · · · · · · · · · · · · | ~~~~ | 2500 LIVI | | | FLAINS |
| | LS LITHONIA #ZL1N L48 1500LM L MVOLT | LED STIP LIGHT. | 120/277 | LED 4000K | SURFACE | | STANDARD WITH 0-10V DIMMING DRIVER. |
| | HE WILLIAMS #75S 4 L15 | | | 80CRI 1500 LM | | | COORDINATE LENGTH WITH PLANS |
| | COLUMBIA, EATON | | | 1500 LIVI | | | I LANO |
| | LS2 LITHONIA #ZL1N L24 1500LM L MVOLT | LED STIP LIGHT. | 120/277 | LED 4000K | SURFACE | 15 / 4' | STANDARD WITH 0-10V DIMMING DRIVER. |
| | HE WILLIAMS #75S 2 L15 | | | 80CRI 750 LM | | | COORDINATE LENGTH WITH PLANS |
| | COLUMBIA, EATON | | | 7 50 LIVI | | | FLANS |
| | LS3 LITHONIA #ZL1N L36 1500LM L MVOLT | LED STIP LIGHT. | 120/277 | LED 4000K | SURFACE | 15 / 4' | STANDARD WITH 0-10V DIMMING DRIVER. |
| ζ | HE WILLIAMS #75S 3 L15 | | | 80CRI 1000 LM | | | COORDINATE LENGTH WITH PLANS |
| | COLUMBIA, EATON | | | TOOU LIVI | | | PLAINS |
| | in Aurunian in the second seco | | m | mm | mm | Jun | ······································ |
| | | | | | | | |
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| | LITHONIA #LRP1RC(DIRECTION)120/277 | SINGLE FACE EDGE LIT LED EXIT SIGN, BRUSHED ALUMINUM HOUSING, VIRGIN ACRYLIC PANEL, RED | | | | | UNSWITCHED. |
| | XA ISOLITE #ELT FT AC R 1C BA RC UC | LETTER ON CLEAR BACKGROUND, DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS, TOP | 277 | LED | CEILING | 7 | |
| | EVENLITE, SURE-LITE | MOUNT. | | | | | |
| | LITHONIA #LRP2RMR(DIRECTION)120/277 | DOUBLE FACE EDGE LIT LED EXIT SIGN, BRUSHED ALUMINUM HOUSING, VIRGIN ACRYLIC PANEL, RED | | | | | UNSWITCHED. |
| | XB ISOLITE #ELT FT AC R 2M BA RC UC | LETTER ON MIRROR BACKGROUND, DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS, TOP | 277 | LED | CEILING | 7 | |
| | EVENLITE, SURE-LITE | MOUNT. | | | | | |
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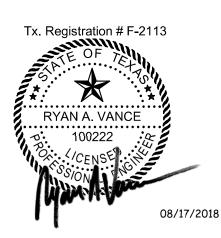


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Texas Registered Engineering Firm F-2113

REVISIONS

1 07/24/2018 ADDENDUM NO. 1
2 08/17/2018 ADDENDUM NO. 2



PROJECT NAME



Jane and Robert Cizik School of Nursing

The University of Texas
Health Science Center at Houston

SIMULATION CENTER

PROJECT NUMBER

045017.0000

CIP 1601

ISSUE FOR CONSTRUCTION

DATE

07/02/2018

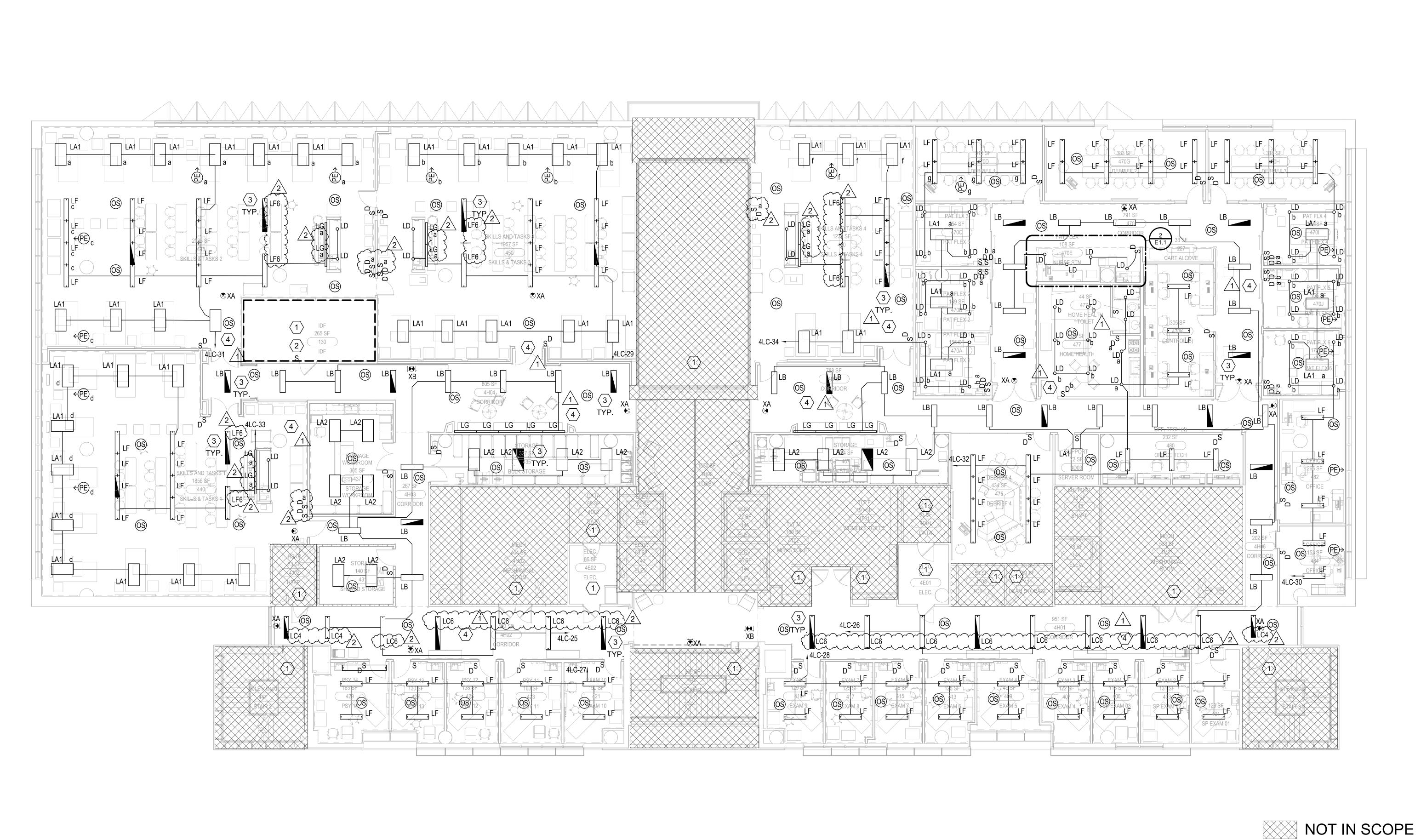
DRAWING TITLE

LUMINAIRE

SCHEDULE

DRAWING NUMBER

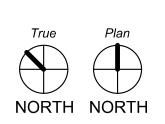
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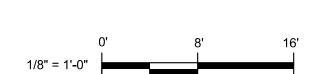




KEYED NOTES - E1-1

- 1 EXISTING LIGHTING TO REMAIN. 2 RELOCATED LIGHT SWITCH.
- 3 RECONNECT TO EXISTING EMERGENCY CIRCUIT THAT PREVIOUSLY SERVED THIS AREA.
- 4 BASE BID: EMERGENCY FIXTURES SHALL BE UNSWITCHED. ALTERNATE NO. 12: PROVIDE UL 924 RELAY TO CONTROL EMERGENCY LIGHT FIXTURES IN ROOM.









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07/24/2018 ADDENDUM NO. 1

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Health Science Center at Houston

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PROJECT NUMBER

045017.0000

CIP 1601

ISSUE FOR

CONSTRUCTION

07/02/2018

DRAWING TITLE

LEVEL 04 LIGHTING RENOVATION PLAN

DRAWING NUMBER

LEVEL 04 LIGHTING RENOVATION PLAN

1/8" = 1'-0" \cdots

2 NURSE STN COVE

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GENERAL NOTES - GE01-1A

A ALL EMERGENCY LUMINAIRES AND EXIT LIGHTS ARE TO REMAIN UNSWITCHED, UNLESS OTHERWISE NOTED.

B LIGHTED EXIT SIGNS ARE SHOWN FOR QUANTITIES AND

FOR EXACT LOCATION OF LIGHTED EXIST SIGNS.

C SINGLE-FACE EXIT SIGNS ARE TYPE XA, UNLESS

D COORDINATE ELECTRICAL WORK WITH ARCHITECT,

LIGHTING CONTACTORS.

GENERAL LOCATIONS. COORDINATE WITH ARCHITECT

OTHERWISE NOTED. DOUBLE-FACE SIGNS ARE TYPE XB, UNLESS OTHERWISE NOTED.

CIVIL, STRUCTURAL, MECHANICAL, AND PLUMBING SO AS TO AVOID INTERFERENCE WITH OR COMPROMISE OF

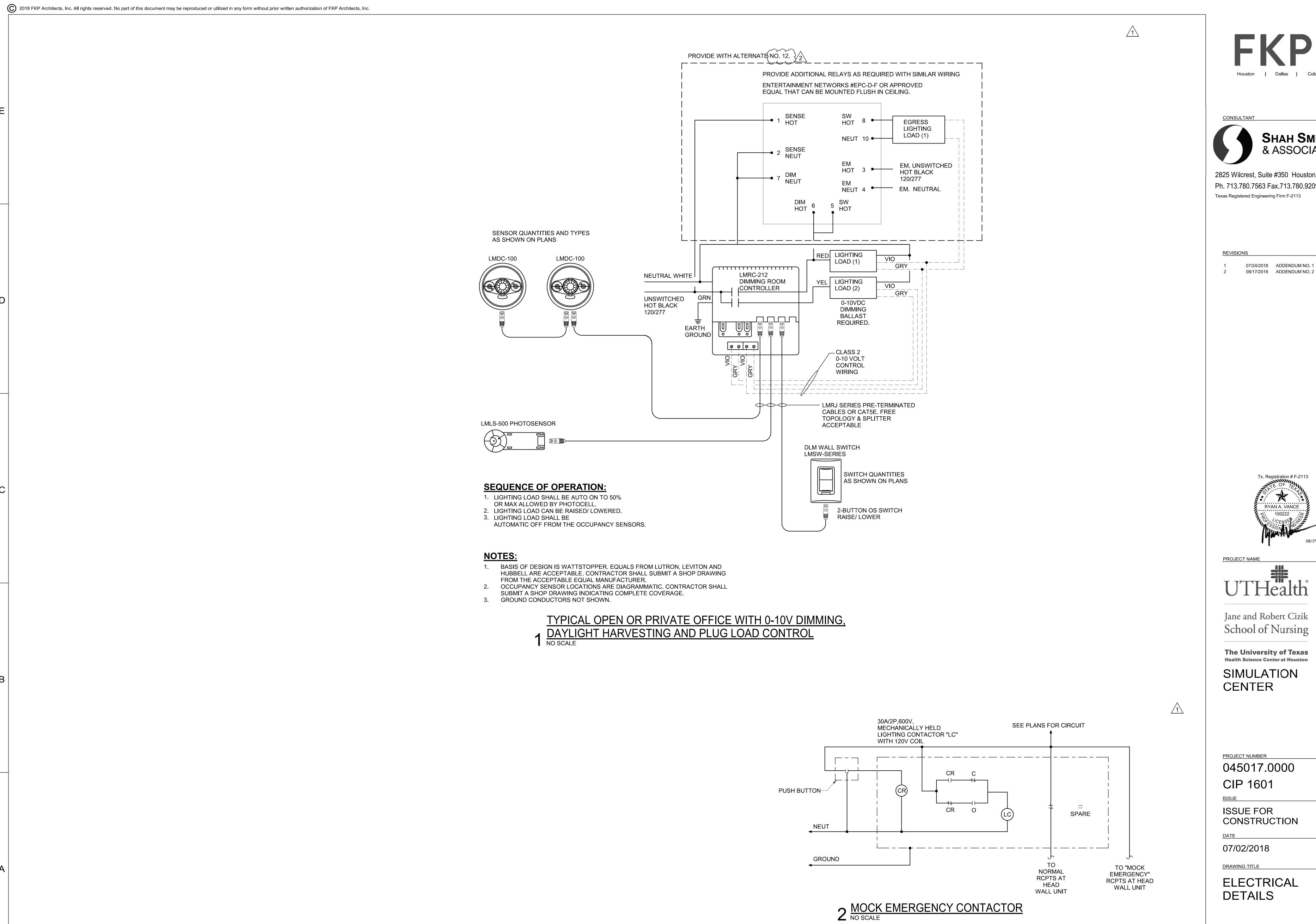
E SEE ENLARGED ELECTRICAL PLANS FOR LOCATION OF LIGHTING BRANCH CIRCUIT PANELBOARDS AND

F LIFE SAFETY LIGHTING ON THIS SHEET IS SERVED FROM

LOCATION WITH ARCHITECTURAL REFLECTING CEILING

PANEL 5LE. NUMBER INDICATES CIRCUIT NUMBER.

G COORDINATE FINAL LUMINAIRE QUANTITY AND



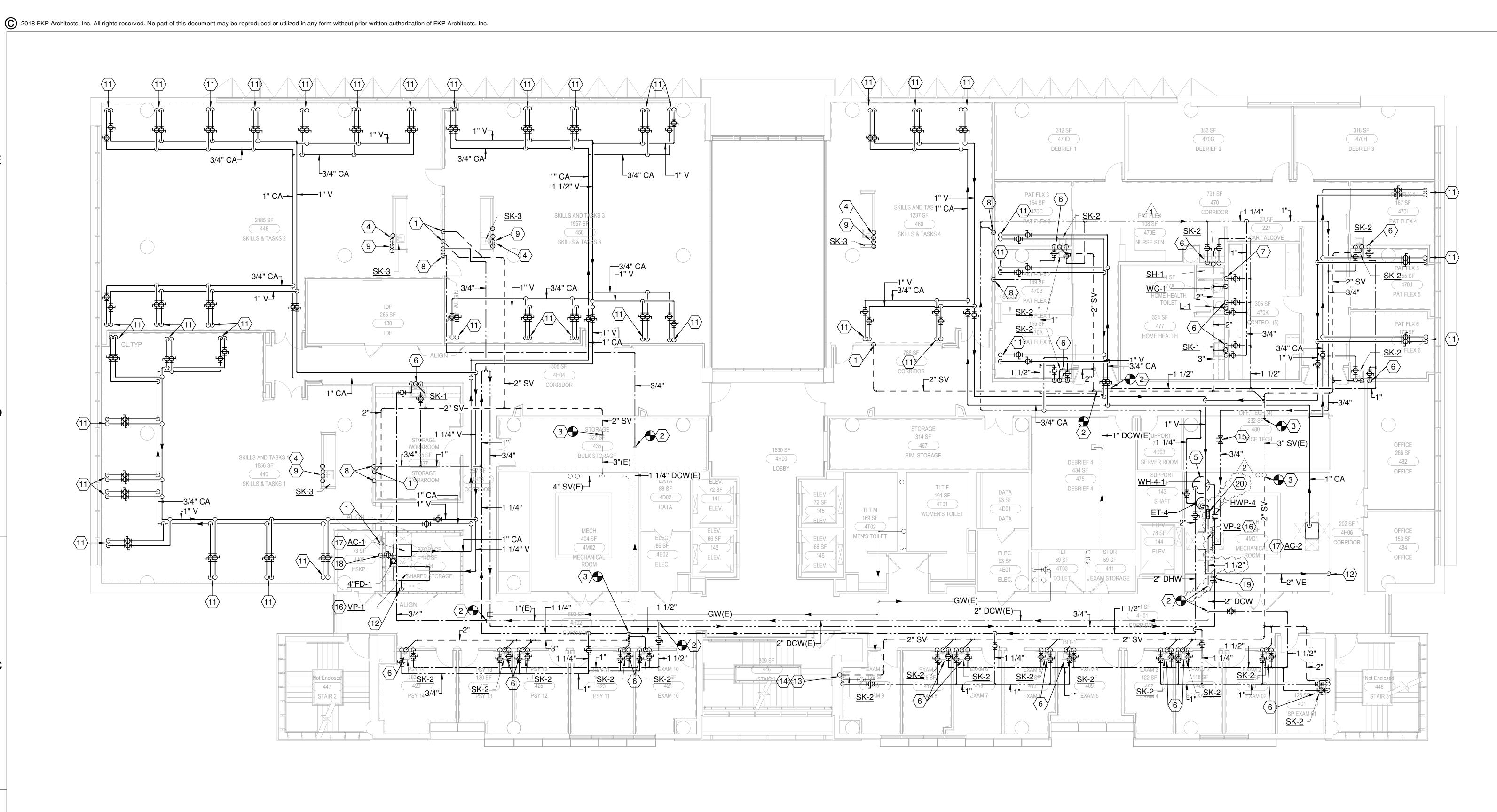
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Tx. Registration # F-2113

School of Nursing

DRAWING NUMBER

E6.0



LEVEL 4 PLUMBING RENOVATION PLAN 1/8" = 1'-0"

GENERAL NOTES

A. PROVIDE PROSET TRAP GUARD IN ALL FLOOR DRAINS.

KEYED NOTES - P2.4

- 1 2" VENT FROM UNDER RAISED FLOOR.
- 2 CONNECT INTO EXISTING DCW.
- 3 CONNECT INTO EXISTING VENT LINE. 4 ISLAND VENTING VENT PIPE ROUTED UNDER
- RAISED FLOOR. RE: 4/P9.0 FOR DETAIL.
- 5 REFER TO 7/P9.0 FOR WATER HEATER DETAIL.
- 6 3/4" DCW AND 3/4" DHW DOWN TO SINK. 2" VENT UP, 2" SANITARY DOWN.
- 7 1" DCW DOWN TO WATER CLOSET. 4" SAN DOWN, 2" VENT UP.
- 8 3/4" DCW AND 3/4" DHW DOWN WALL TO UNDER RAISED FLOOR.
- 9 3/4" DCW AND 3/4" DHW UP TO FIXTURE. 2" SAN DOWN, 2" ISLAND VENT DOWN. RE: PU2.4 FOR CONTINUATION.
- 11 3/4" LV AND 1/2" CA TO SIMULATED HEAD WALL ASSEMBLY. REFER TO ARCHITECTUAL PLANS FOR
- DETAIL. 12 2" VACUUM EXHAUST DOWN.
- 13 RECONNECT 3/4" DCW TO FIXTURE.
- 14 3/4" DHW DOWN TO FIXTURE. 2" SAN WITH P-TRAP
- DOWN, 2" VENT UP.
- 15 BALANCING VALVE AND CIRCUIT SETTER. BALANCE TO 0.5 GPM.
- 16 REFER TO 8/P9.0 FOR VACUUM PUMP DETAIL.
- 17 REFER TO 9/P9.0 FOR AIR COMPRESSOR DETAIL.
- 18 1/2" DCW DOWN TO TRAP PRIMER ASSEMBLY.
- 19 BALANCING VALVE AND CIRCUIT SETTER BALANCE TO 0.75 GPM.
- 20 ŘPŽ. ŘOŮTĚ 3/4" ĎRÁIN TO NĚAŘEŠT ŠAŇITÁRÝ FLOOR DRAIN.



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07/24/2018 ADDENDUM NO. 1 08/17/2018 ADDENDUM NO. 2



PROJECT NAME



Jane and Robert Cizik School of Nursing

The University of Texas

Health Science Center at Houston SIMULATION CENTER

PROJECT NUMBER

045017.0000 CIP 1601

ISSUE FOR CONSTRUCTION

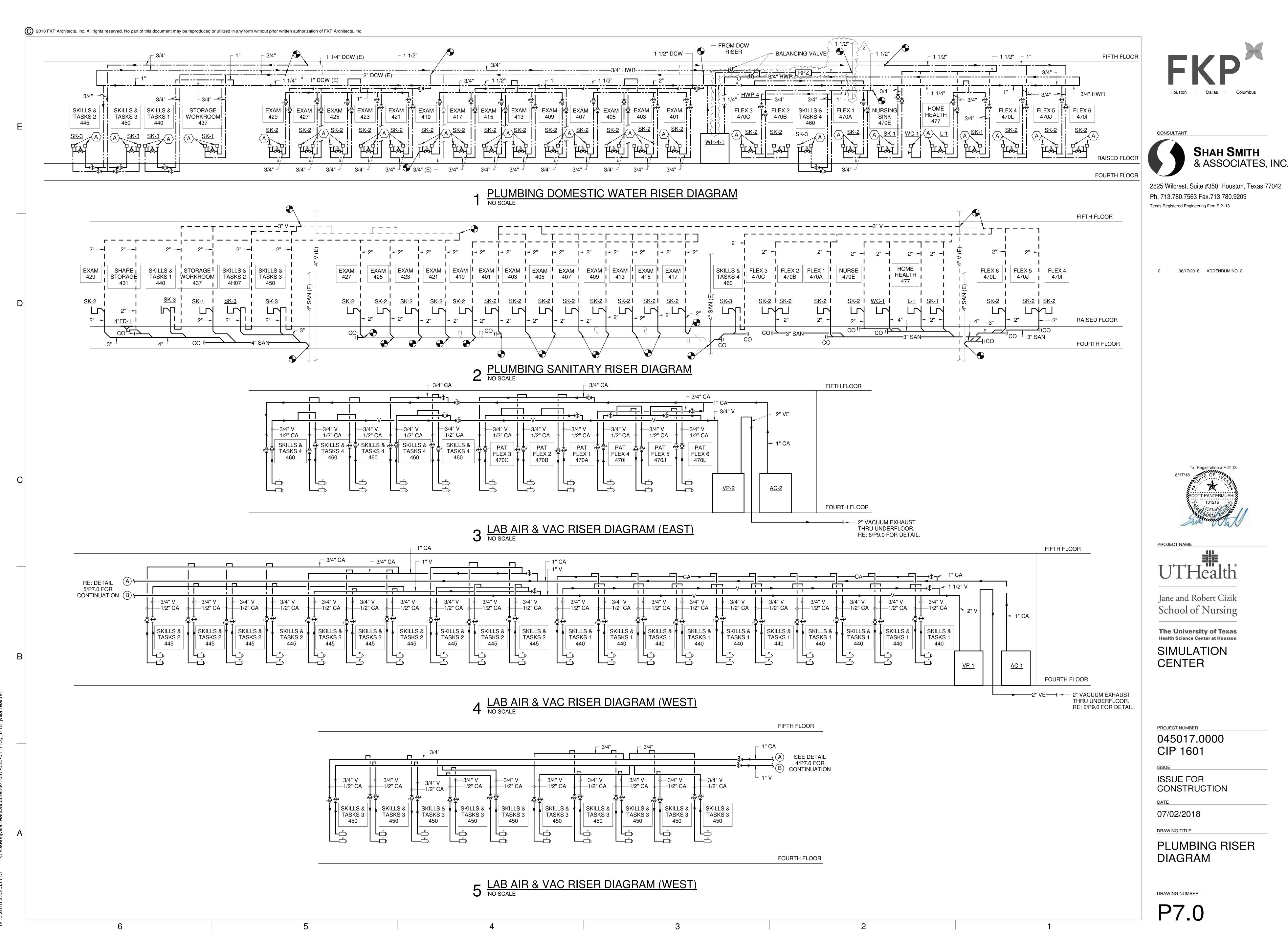
07/02/2018

DRAWING TITLE

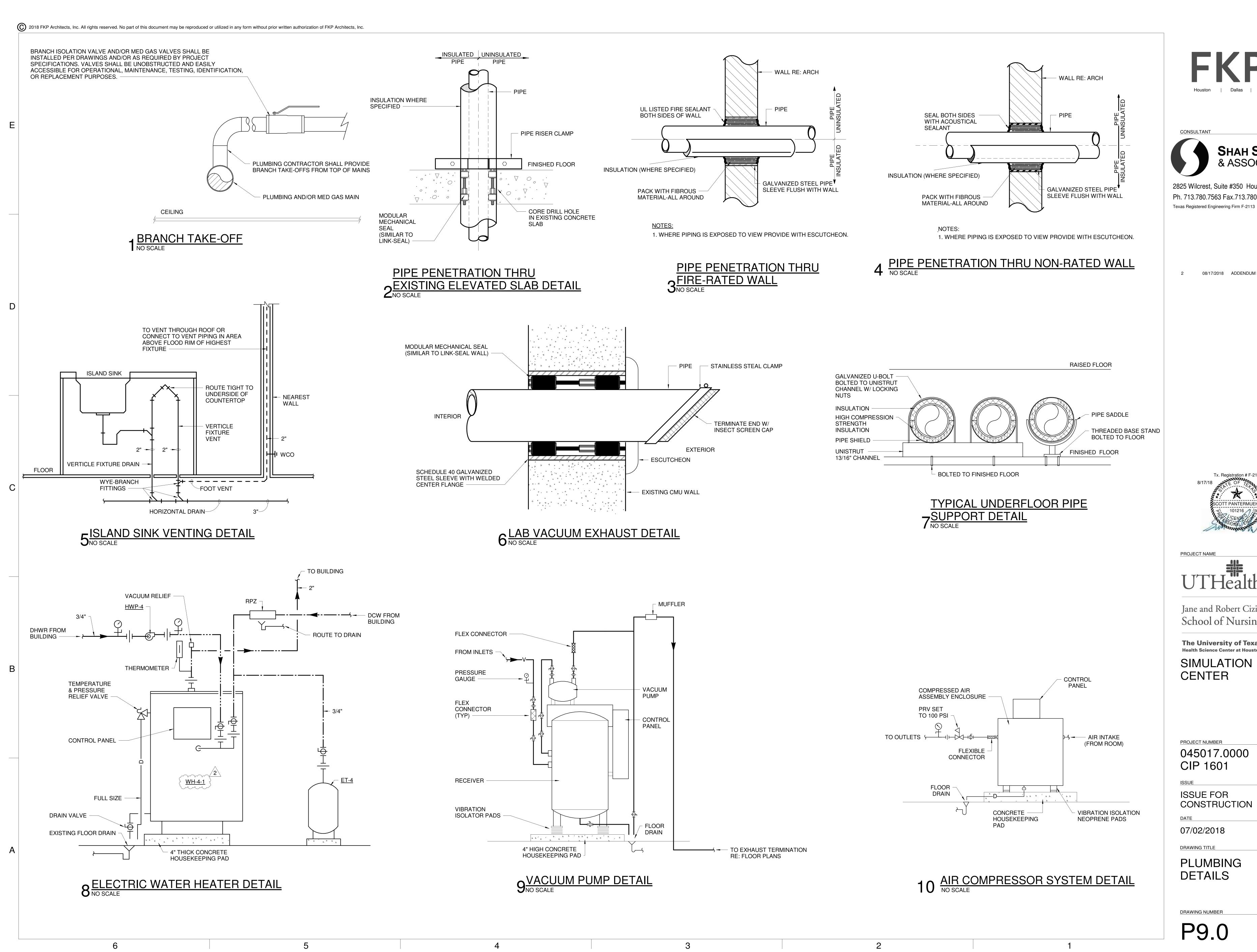
LEVEL 4 PLUMBING RENOVATION PLAN

DRAWING NUMBER

NORTH NORTH



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CONSULTANT

2825 Wilcrest, Suite #350 Houston, Texas 77042 Ph. 713.780.7563 Fax.713.780.9209

08/17/2018 ADDENDUM NO. 2

Tx. Registration # F-2113

PROJECT NAME

UTHealth

Jane and Robert Cizik School of Nursing

The University of Texas **Health Science Center at Houston**

SIMULATION CENTER

PROJECT NUMBER

045017.0000 CIP 1601

ISSUE FOR

CONSTRUCTION

07/02/2018

DRAWING TITLE

PLUMBING DETAILS

DRAWING NUMBER

P9.0

ROUP "**.1 acoustics

DATAC

ESIGN GE

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XXX

AUDIOVISUAL ONE-LINE CONDUIT DETAIL (TYPICAL) **GENERAL KEYNOTES:** 1.) NOT ALL SYMBOLS TO BE USED 1 PROVIDE FOUR TO FIVE INCHES OF PER SPACE. SEE AV DRAWINGS CONDUIT STUB OUT ACCESSIBLE FOR EXACT SPACE REQUIREMENTS. FROM THE PLENUM SPACE. TWO(2) 1"ø PROVIDE PLASTIC BUSHING ON ALL CONDUIT STUB OUTS. 2.) ANY VARIATIONS IN CONDUIT SIZE OR DESTINATION WILL BE LOCATED ONE(1) 3/4"ø -IN THE AV DETAIL PAGES. $\langle \overline{2} \rangle$ PROVIDE TWO(2) 1-1/4"ø CONDUIT SLEEVES FROM LOCAL CABLE TRAY \longrightarrow ONE(1) 1"ø ONE $(1) \ 3/4"$ (PWR) THROUGH WALL AND EXTENDING 3.) REFER TO E-SERIES AND ONE (1) 1" (DATA) T-SERIES DRAWINGS FOR FOUR TO FIVE INCHES INTO ONE (1) 1-1/4" (AV) ELECTRICAL AND DATA ACCESSIBLE PLENUM SPACE OF ROOM. PROVIDE PLASTIC BUSHING PATHWAY/CONDUIT REQUIREMENTS. FOUR(4) ON ALL CONDUIT STUB OUTS. 1-1/4"ø $^{-}$ ONE(1) 3/4"ø ONE(1) 1"Ø f (3) RUN PLENUM RATED CABLE ON SCREEN J-HOOKS TO PROJECTOR AND LOUDSPEAKER LOCATIONS TWO(2) 1"ø ONE(1) 1-1/2"ø, TWO(2)1-1/4"ø & ONE(1) 1"ø ─TWO(2) 1"ø & ONE(1) 1-1/4"ø ONE(1) 1-1/2°, ONE(1) -AVP + 1-1/4"ø & ONE(1) 1"ø ONE(1) 3/4"ø ONE(1) 3/4"ø ONE(1) 3/4" ϕ CONDUIT TO CONDUIT TO TWO(2) 1-1/4"Ø & ONE(1) 1"Ø FROM --TWO (2) 1-1/4"ø -TWO (2) 1"ø SUPPORT DATA -ONE (1) 1-1/4"ø 6-GANG COMPARTMENT PLUS FROM 3-GANG ONE(1) 1"Ø FROM COMPARTMENT 1-GANG COMPARTMENT

PROJECT NAME

JTHealth Jane and Robert Cizik School of Nursing

DATACOM

DESIGN GROUP

voice | data | audio | video | security | acoustics

08/16/2018 ADDENDUM #2

nnology So

CTS°-D

Darrell Tackett

#2326100

Expires:

10/31/2018

P: (713) 589-9797

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F: (713) 529-4113

The University of Texas

SIMULATION **CENTER**

PROJECT NUMBER 045017.0000

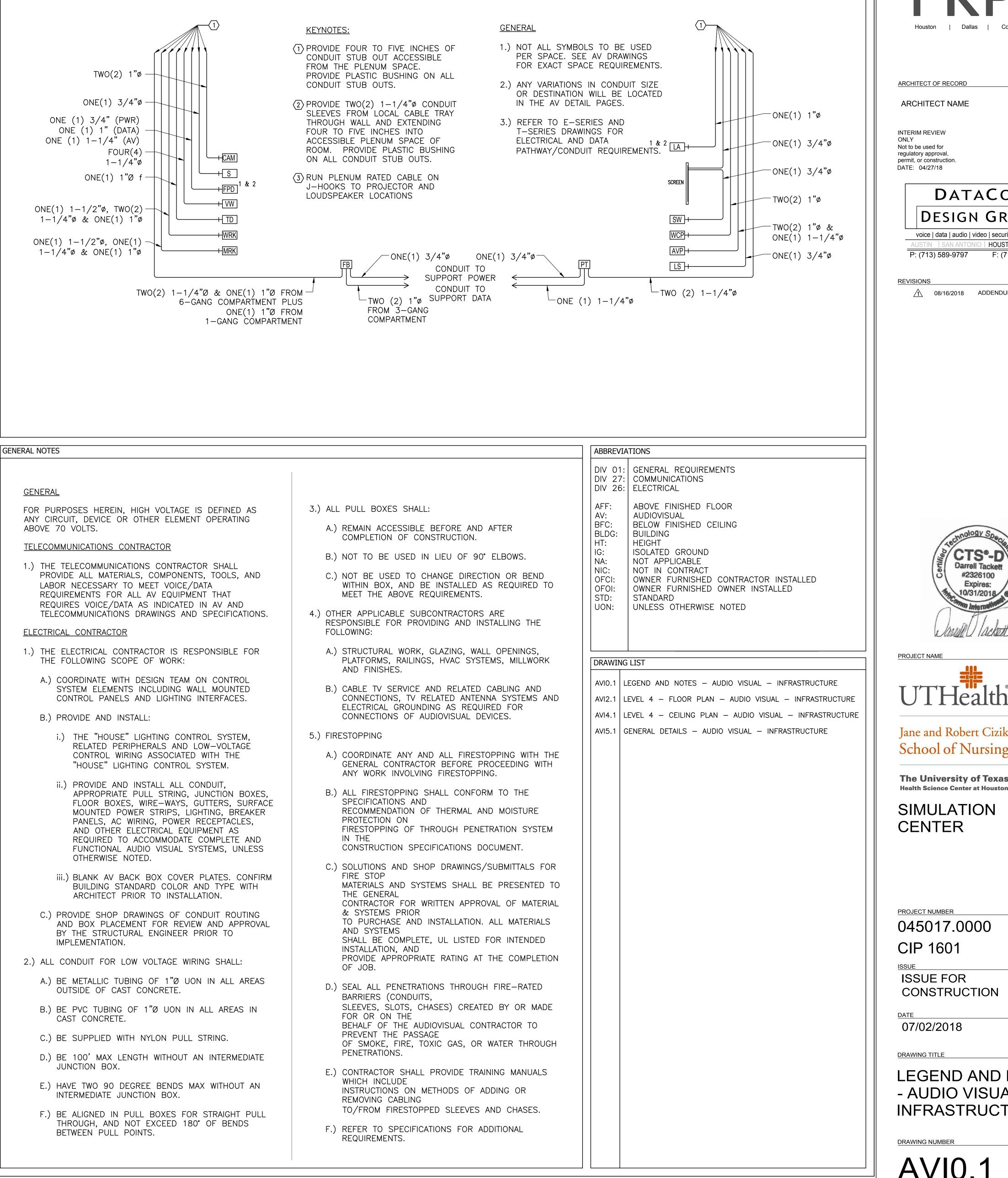
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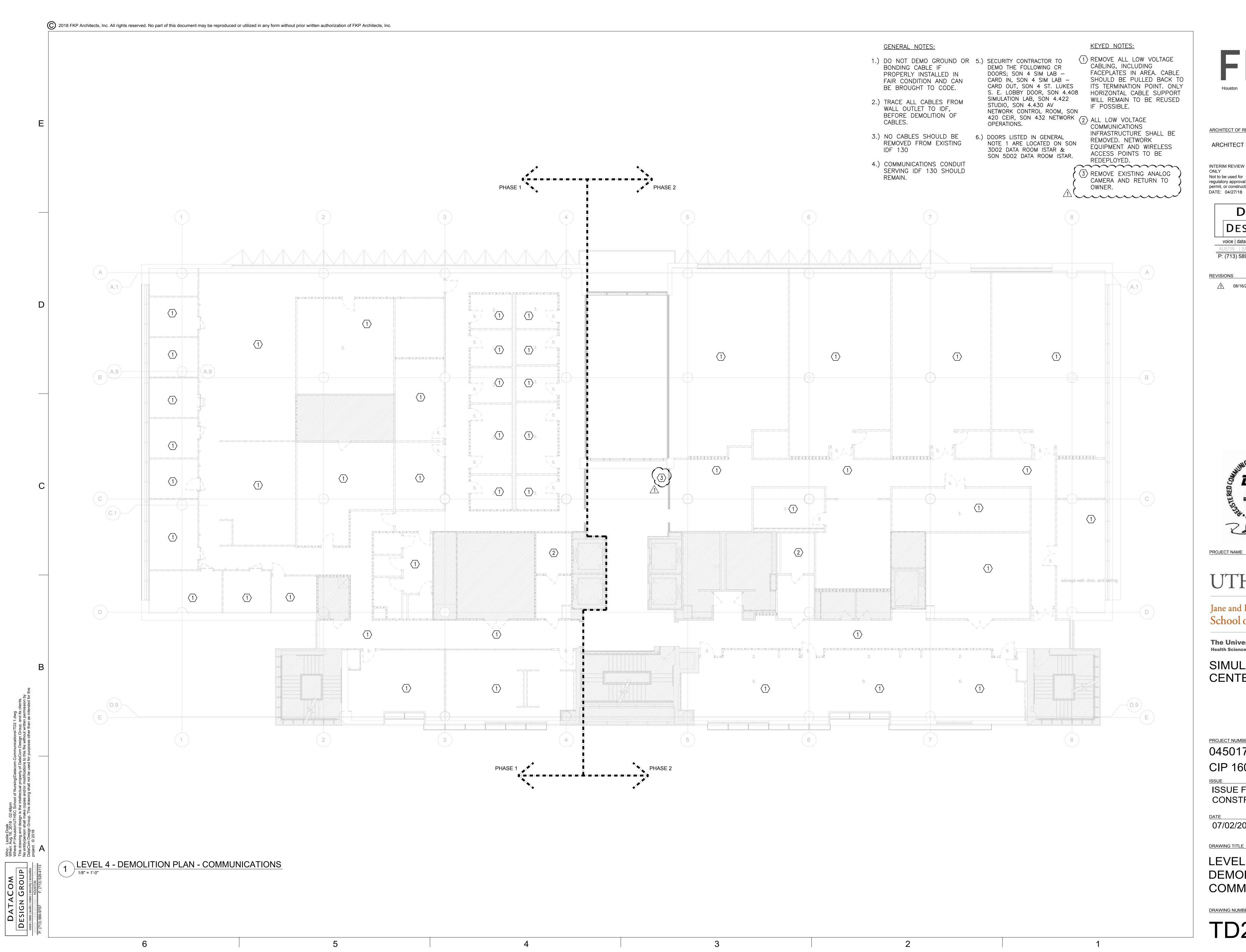
07/02/2018

DRAWING TITLE

LEGEND AND NOTES - AUDIO VISUAL -INFRASTRUCTURE

DRAWING NUMBER







ARCHITECT NAME

INTERIM REVIEW Not to be used for regulatory approval, permit, or construction.

DATACOM DESIGN GROUP

voice | data | audio | video | security | acoustics HOUSTON P: (713) 589-9797 F: (713) 529-4113

108/16/2018 ADDENDUM #2



PROJECT NAME



Jane and Robert Cizik School of Nursing

The University of Texas
Health Science Center at Houston

SIMULATION CENTER

PROJECT NUMBER

045017.0000 CIP 1601

ISSUE FOR CONSTRUCTION

07/02/2018

LEVEL 4 -

DEMOLITION PLAN -COMMUNICATIONS

TD2.1